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## SUMMARIES

|    |       |      |      |   |                 |
|----|-------|------|------|---|-----------------|
| 28 | 909   | 27.7 | 497  | 3 | US-09-212-971-4 |
| 29 | 909   | 27.7 | 497  | 3 | US-08-929A-1    |
| 30 | 909   | 27.7 | 497  | 4 | US-09-617-053A- |
| 31 | 909   | 27.7 | 497  | 4 | US-09-201-936-4 |
| 32 | 908   | 27.7 | 497  | 4 | US-08-651-759-2 |
| 33 | 874   | 26.7 | 496  | 2 | US-08-511-485-1 |
| 34 | 874   | 26.7 | 496  | 3 | US-09-212-971-1 |
| 35 | 874   | 26.7 | 496  | 3 | US-08-890-929A- |
| 36 | 874   | 26.7 | 496  | 4 | US-09-617-053A- |
| 37 | 874   | 26.7 | 496  | 4 | US-09-201-936-1 |
| 38 | 737   | 22.5 | 497  | 4 | US-08-657-759-1 |
| 39 | 736.5 | 22.5 | 498  | 2 | US-08-511-485-1 |
| 40 | 736.5 | 22.5 | 498  | 4 | US-09-201-936-1 |
| 41 | 513   | 15.7 | 268  | 3 | US-08-836-134-2 |
| 42 | 513   | 15.7 | 268  | 4 | US-09-937-884-2 |
| 43 | 492.5 | 15.0 | 236  | 4 | US-09-239-867-4 |
| 44 | 466.5 | 14.2 | 377  | 4 | US-09-502-867-4 |
| 45 | 463   | 14.1 | 1151 | 3 | US-08-836-134-2 |

RESULT 1  
US-08-569-749-2  
Sequence 2, Application US/08569749  
Patient No. 6187557  
GENERAL INFORMATION:  
APPLICANT: Rothe, Mike  
TITLE OF INVENTION: INHIBITORS OF APOPTOSIS  
NUMBER OF SEQUENCES: 14  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: FLEHR, HOHBACH, TEST, ALBRITTON & HARRIS  
STREET: 4 Embarcadero Center, Suite 3400  
CITY: San Francisco  
STATE: California  
COUNTRY: USA  
ZIP: 94111  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/569,749  
FILING DATE:  
CLASSIFICATION: 514  
ATTORNEY/AGENT INFORMATION:  
NAME: Breezner, David J.  
REGISTRATION NUMBER: 24,774  
REFERENCE/DOCKET NUMBER: A-62464/DJB  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (415) 398-1989  
TELEFAX: (415) 398-3249  
INFORMATION FOR SEQ ID NO: 2:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 618 amino acids  
TYPE: amino acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
US-08-569-749-2

Query Match Score 3277; DB 3;  
Best Local Similarity 100.0%; Pred. No. 4.8e-306;  
Matches 618; Conservative 0; Mismatches 0;

OQ 1 MHKTASQRLLPCCPSYQNIKSMEDSTILSPWTNSNKQKMK  
Db 1 MHKTASQRLLPCCPSYQNIKSMEDSTILSPWTNSNKQKMK  
61 PVRSLSRAGFGYYTGVDNRKCFCCGJMDLNWKLGDSRGG

Query Match 100.0%; Score 3277; DB 4; Length 618;  
 Best Local Similarity 100.0%; Pred. No. 4.8e-308;  
 Matches 618; Conservative 0; Mismatches 0; Index 0; Gaps 0;

QY 1 MHTKTAQRLLPGPSYQNIKSMEDSTLSDWNTNSNQKOMKDPSCLYRMSYSTPAGV 60  
 Db 1 MHKTASQRLPGPSYQNIKSMEDSTLSDWNTNSNQKOMKDPSCLYRMSYSTPAGV 60

QY 61 PVSERSLARAGFYTGNDKVKFCGGMLDNWKLGSSPIOKHQLPYLSPCSPIONVLSAS 120  
 Db 61 PVSERSLARAGFYTGNDKVKFCGGMLDNWKLGSSPIOKHQLPYLSPCSPIONVLSAS 120

QY 121 LGSTSNTSPMNSFAHSLSPTEHSLSLFSQSYSSLSPNPLSRAVEDDISSRTPSYA 180  
 Db 121 LGSTSNTSPMNSFAHSLSPTEHSLSLFSQSYSSLSPNPLSRAVEDDISSRTPSYA 180

QY 121 LGSTSNTSPMNSFAHSLSPTEHSLSLFSQSYSSLSPNPLSRAVEDDISSRTPSYA 180  
 Db 121 LGSTSNTSPMNSFAHSLSPTEHSLSLFSQSYSSLSPNPLSRAVEDDISSRTPSYA 180

QY 181 MSTHEARFLTYHMWPLTLPSELARAGFYYIGPDRVACFACGGKLSNWEPKDAMSEH 240  
 Db 181 MSTHEARFLTYHMWPLTLPSELARAGFYYIGPDRVACFACGGKLSNWEPKDAMSEH 240

QY 241 RRHFPNCPPLENSLETLPSELARAGFYYIGPDRVACFACGGKLSNWEPKDAMSEH 240  
 Db 241 RRHFPNCPPLENSLETLPSELARAGFYYIGPDRVACFACGGKLSNWEPKDAMSEH 240

QY 241 RRHFPNCPPLENSLETLPSELARAGFYYIGPDRVACFACGGKLSNWEPKDAMSEH 240  
 Db 241 RRHFPNCPPLENSLETLPSELARAGFYYIGPDRVACFACGGKLSNWEPKDAMSEH 240

QY 301 NDDVKFCFCGGLRCWESGDPWVEHAKWPRCEFLIRMKQEFVDEIQRYPHILEQLL 360  
 Db 301 NDDVKFCFCGGLRCWESGDPWVEHAKWPRCEFLIRMKQEFVDEIQRYPHILEQLL 360

QY 301 NDDVKFCFCGGLRCWESGDPWVEHAKWPRCEFLIRMKQEFVDEIQRYPHILEQLL 360  
 Db 301 NDDVKFCFCGGLRCWESGDPWVEHAKWPRCEFLIRMKQEFVDEIQRYPHILEQLL 360

QY 361 STSDTGEENADPPIIHGPGESESSEDAVMMTPVKSALMGFNRLDVQTVOSKILT 420  
 Db 361 STSDTGEENADPPIIHGPGESESSEDAVMMTPVKSALMGFNRLDVQTVOSKILT 420

QY 361 STSDTGEENADPPIIHGPGESESSEDAVMMTPVKSALMGFNRLDVQTVOSKILT 420  
 Db 361 STSDTGEENADPPIIHGPGESESSEDAVMMTPVKSALMGFNRLDVQTVOSKILT 420

QY 421 GENYKVNDIVSALLNAEDEKREBEEKEKOAEEMASDDSLIRKNORMALFOQLTCVLPILD 480  
 Db 421 GENYKVNDIVSALLNAEDEKREBEEKEKOAEEMASDDSLIRKNORMALFOQLTCVLPILD 480

QY 421 GENYKVNDIVSALLNAEDEKREBEEKEKOAEEMASDDSLIRKNORMALFOQLTCVLPILD 480  
 Db 421 GENYKVNDIVSALLNAEDEKREBEEKEKOAEEMASDDSLIRKNORMALFOQLTCVLPILD 480

QY 481 NLLKANVINKOHDIIKQTKOPIQLOARELIDITLVKGNAAMIFKNCLKEIDSTLYKLF 540  
 Db 481 NLLKANVINKOHDIIKQTKOPIQLOARELIDITLVKGNAAMIFKNCLKEIDSTLYKLF 540

QY 481 NLLKANVINKOHDIIKQTKOPIQLOARELIDITLVKGNAAMIFKNCLKEIDSTLYKLF 540  
 Db 481 NLLKANVINKOHDIIKQTKOPIQLOARELIDITLVKGNAAMIFKNCLKEIDSTLYKLF 540

QY 541 VDKNMKYIPTEVDGSLSLBEBLRRQEBERTCKVCMDEKEYSVVIFPCGHLVVCOCAPSRL 600  
 Db 541 VDKNMKYIPTEVDGSLSLBEBLRRQEBERTCKVCMDEKEYSVVIFPCGHLVVCOCAPSRL 600

QY 541 VDKNMKYIPTEVDGSLSLBEBLRRQEBERTCKVCMDEKEYSVVIFPCGHLVVCOCAPSRL 600  
 Db 541 VDKNMKYIPTEVDGSLSLBEBLRRQEBERTCKVCMDEKEYSVVIFPCGHLVVCOCAPSRL 600

QY 601 KCPICRGIIKGTVRFLS 618  
 Db 601 KCPICRGIIKGTVRFLS 618

QY 601 KCPICRGIIKGTVRFLS 618  
 Db 601 KCPICRGIIKGTVRFLS 618

RESULT 2  
 US-09-069-023-29  
 ; Sequence 29, Application US/09069023A  
 ; Patent No. 6348573  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Nunez, Gabriel  
 ; APPLICANT: Inouara, Naohiro  
 ; APPLICANT: Koseki, Takeyoshi  
 ; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR IDENTIFYING APOPTOSIS  
 ; TITLE OF INVENTION: SIGNALING PATHWAY INHIBITORS AND ACTIVATORS  
 ; FILE REFERENCE: UM-03333  
 ; CURRENT APPLICATION NUMBER: US/09/069, 023A  
 ; CURRENT FILING DATE: 1998-04-27  
 ; NUMBER OF SEQ ID NOS: 38  
 ; SOFTWARE: PatentIn Ver. 2.0  
 ; SEQ ID NO: 29  
 ; LENGTH: 618  
 ; TYPE: PRT  
 ; ORGANISM: Homo sapiens  
 ; US-09-069-023-29

RESULT 3  
 PCT-US96-12860-2  
 ; Sequence 2, Application PC/TUS9612860  
 ; GENERAL INFORMATION:  
 ; APPLICANT: TULARK, INC.  
 ; TITLE OF INVENTION: INHIBITORS OF APOPTOSIS  
 ; NUMBER OF SEQUENCES: 14  
 ; CORRESPONDENCE ADDRESS:  
 ; ADDRESSEE: FLEHR, ROHACH, TEST, ALBRITTON & HERBERT  
 ; STREET: 4 Embarcadero Center, Suite 3400  
 ; CITY: San Francisco  
 ; STATE: California  
 ; COUNTRY: USA  
 ; ZIP: 94111  
 ; COMPUTER READABLE FORM:  
 ; MEDIUM TYPE: Floppy disk  
 ; COMPUTER: IBM PC compatible  
 ; OPERATING SYSTEM: PC-DOS/MS-DOS  
 ; SOFTWARE: PatentIn Release #1.0, Version #1.30  
 ; CURRENT APPLICATION DATA:  
 ; APPLICATION NUMBER: PCT/US96/12860  
 ; FILING DATE: 06 AUG 1996  
 ; CLASSIFICATION:  
 ; PRIOR APPLICATION DATA:  
 ; APPLICATION NUMBER: U.S. Serial Nos. 08/512,946 & 08/569,749  
 ; CLASSIFICATION:  
 ; ATTORNEY/AGENT INFORMATION:  
 ; NAME: Brauner, David J.  
 ; REGISTRATION NUMBER: 24,774  
 ; REFERENCE DOCKET NUMBER: A-62464/DJB  
 ; TELEPHONE: (415) 781-1989  
 ; TELEFAX: (415) 398-3249  
 ; INFORMATION FOR SEQ ID NO: 2:  
 ; SEQUENCE CHARACTERISTICS:

TYPE: amino acid  
 STRANDEDNESS: single  
 TOPOLOGY: linear  
 MOLECULE TYPE: protein  
 PCR-US96-12860-2

Query Match 100.0%; Score 3277; DB 5; Length 618;  
 Best Local Similarity 100.0%; Pred. No. 4.8e-308;  
 Matches 618; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MHKTASORLFPGPSYONIKSIMEDESTILSDWTNSNKQKMYDFSCLYRMSTYTFAGV

61 PVRSLSLAGFYYTGVDNDKVKCFCGGLMLDNWKLGDSPIQKHQLYPSCSPIQNLVSAS 120  
 61 PVRSLSLAGFYYTGVDNDKVKCFCGGLMLDNWKLGDSPIQKHQLYPSCSPIQNLVSAS 120

121 LGSTSNTSPMNRSAHSLSPTEHSSLRFSISNLSMQTHAARNRTFMWPPSSVPVQPEOLASAGFYVGR 180  
 121 LGSTSNTSPMNRSAHSLSPTEHSSLRFSISNLSMQTHAARNRTFMWPPSSVPVQPEOLASAGFYVGR 180

181 MSTBEARFLTYHMWPLTFLSPSELARAGFYYIGPDRVACTACGGKLSSNWEPKDAMSEH 240  
 181 MSTBEARFLTYHMWPLTFLSPSELARAGFYYIGPDRVACTACGGKLSSNWEPKDAMSEH 240

181 MSTBEARFLTYHMWPLTFLSPSELARAGFYYIGPDRVACTACGGKLSSNWEPKDAMSEH 240  
 181 MSTBEARFLTYHMWPLTFLSPSELARAGFYYIGPDRVACTACGGKLSSNWEPKDAMSEH 240

QY 241 RRHFNCPCPPLENSELTIRTSISNLSMQTHAARNRTFMWPPSSVPVQPEOLASAGFYVGR 300  
 241 RRHFNCPCPPLENSELTIRTSISNLSMQTHAARNRTFMWPPSSVPVQPEOLASAGFYVGR 300

301 NDDVKFCFCGGLRCWESGDPWVEHAKWPRCEFLIRMKQJEOFVDEIQRGYPHILEOLL 360  
 301 NDDVKFCFCGGLRCWESGDPWVEHAKWPRCEFLIRMKQJEOFVDEIQRGYPHILEOLL 360

361 STSTDTCGEENADPPIIHFGPGESESSEDAVMMNTPVKSALINGPFRDLVTKQTQSKILLT 420  
 361 STSTDTCGEENADPPIIHFGPGESESSEDAVMMNTPVKSALINGPFRDLVTKQTQSKILLT 420

421 GENKYTVNDIVSALLNADEKEKREBEEKOAEEMASDDLSLRKNORMALFOQLTCVLPIID 480  
 421 GENKYTVNDIVSALLNADEKEKREBEEKOAEEMASDDLSLRKNORMALFOQLTCVLPIID 480

421 STSTDTCGEENADPPIIHFGPGESESSEDAVMMNTPVKSALINGPFRDLVTKQTQSKILLT 420  
 421 STSTDTCGEENADPPIIHFGPGESESSEDAVMMNTPVKSALINGPFRDLVTKQTQSKILLT 420

481 NLLKANVINKOQEDDIKQTKOIPLOQRELIDITLVKGNAANIFKNCKLEIDSTLYKLF 540  
 481 NLLKANVINKOQEDDIKQTKOIPLOQRELIDITLVKGNAANIFKNCKLEIDSTLYKLF 540

541 VDKNMKYIPTEDVSGLSLREQLQERTCKVCMDEKSVVFPICGHLVVQECAPSLR 600  
 541 VDKNMKYIPTEDVSGLSLREQLQERTCKVCMDEKSVVFPICGHLVVQECAPSLR 600

601 KCPICRGIIKGTVRTELS 618  
 601 KCPICRGIIKGTVRTELS 618

RESULT 4  
 US-08-511-485-8  
 Sequence 8 Application US/08511485  
 Patent No. 591992

GENERAL INFORMATION:  
 APPLICANT: Korneluk, Robert G.  
 APPLICANT: Mackenzie, Alexander E.  
 TITLE OF INVENTION: MAMMALIAN IAP GENE FAMILY, PRIMERS,  
 TITLE OF INVENTION: PROBES, AND DETECTION METHODS  
 NUMBER OF SEQUENCES: 38  
 CORRESPONDENCE ADDRESS:  
 ADDRESSEE: Fish & Richardson P.C.  
 STREET: 225 Franklin Street  
 CITY: Boston  
 STATE: MA  
 COUNTRY: USA  
 ZIP: 02110-2804

COMPUTER READABLE FORM:  
 MEDIUM TYPE: Floppy disk  
 COMPUTER: IBM PC compatible  
 OPERATING SYSTEM: PC-DOS/MS-DOS  
 SOFTWARE: PatentIn Release #1.0, Version #1.3.0  
 CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: US/08/511,485  
 FILING DATE: 04-AUG-1995  
 CLASSIFICATION: 514

ATTORNEY/AGENT INFORMATION:  
 NAME: Clark, Paul T.  
 REGISTRATION NUMBER: 30,162  
 REFERENCE/DOCKET NUMBER: 07540/002001

TELECOMMUNICATION INFORMATION:  
 TELEPHONE: 617/542-5070  
 TELEX: 201054

INFORMATION FOR SEQ ID NO: 8:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 618 amino acids  
 TYPE: amino acid  
 STRANDEDNESS: not relevant  
 TOPOLogy:  
 MOLECULE TYPE: protein

US-08-511-485-8

Query Match 99.1%; Score 3247; DB 2; Length 618;  
 Best Local Similarity 99.4%; Pred. No. 3.8e-305;  
 Matches 614; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 1 MHKTASORLFPGPSYONIKSIMEDESTILSDWTNSNKQKMYDFSCLYRMSTYTFAGV 60  
 1 MHKTASORLFPGPSYONIKSIMEDESTILSDWTNSNKQKMYDFSCLYRMSTYTFAGV 60

61 PVRSLSLAGFYYTGVDNDKVKCFCGGLMLDNWKLGDSPIQKHQLYPSCSPIQNLVSAS 120  
 61 PVRSLSLAGFYYTGVDNDKVKCFCGGLMLDNWKLGDSPIQKHQLYPSCSPIQNLVSAS 120

121 LGSTSNTSPMNRSAHSLSPTEHSSLRFSISNLSMQTHAARNRTFMWPPSSVPVQPEOLASAGFYVGR 180  
 121 LGSTSNTSPMNRSAHSLSPTEHSSLRFSISNLSMQTHAARNRTFMWPPSSVPVQPEOLASAGFYVGR 180

181 MSTBEARFLTYHMWPLTFLSPSELARAGFYYIGPDRVACTACGGKLSSNWEPKDAMSEH 240  
 181 MSTBEARFLTYHMWPLTFLSPSELARAGFYYIGPDRVACTACGGKLSSNWEPKDAMSEH 240

241 RRHFNCPCPPLENSELTIRTSISNLSMQTHAARNRTFMWPPSSVPVQPEOLASAGFYVGR 300  
 241 RRHFNCPCPPLENSELTIRTSISNLSMQTHAARNRTFMWPPSSVPVQPEOLASAGFYVGR 300

301 NDDVKFCFCGGLRCWESGDPWVEHAKWPRCEFLIRMKQJEOFVDEIQRGYPHILEOLL 360  
 301 NDDVKFCFCGGLRCWESGDPWVEHAKWPRCEFLIRMKQJEOFVDEIQRGYPHILEOLL 360

421 GENKYTVNDIVSALLNADEKEKREBEEKOAEEMASDDLSLRKNORMALFOQLTCVLPIID 480  
 421 GENKYTVNDIVSALLNADEKEKREBEEKOAEEMASDDLSLRKNORMALFOQLTCVLPIID 480

481 NLLKANVINKOQEDDIKQTKOIPLOQRELIDITLVKGNAANIFKNCKLEIDSTLYKLF 540  
 481 NLLKANVINKOQEDDIKQTKOIPLOQRELIDITLVKGNAANIFKNCKLEIDSTLYKLF 540

541 VDKNMKYIPTEDVSGLSLREQLQERTCKVCMDEKSVVFPICGHLVVQECAPSLR 600  
 541 VDKNMKYIPTEDVSGLSLREQLQERTCKVCMDEKSVVFPICGHLVVQECAPSLR 600

601 KCPICRGIIKGTVRTELS 618  
 601 KCPICRGIIKGTVRTELS 618

RESULT 5  
US-09-212-971-8  
; Sequence 8, Application US/09212971B  
; Patent No. 6107041  
; GENERAL INFORMATION:  
; APPLICANT: Mackenzie, Alexander E  
; APPLICANT: Liston, Peter  
; APPLICANT: Baird, Stephen  
; APPLICANT: Tsang, Benjamin K  
; TITLE OF INVENTION: DETECTION AND MODULATION OF TAPS AND NAIP FOR THE DIAGNOSIS AND TREATMENT OF PROLIFERATIVE DISEASE  
; FILE REFERENCE: 07891/00902  
; CURRENT APPLICATION NUMBER: US/09/212,971B  
; EARLIER FILING DATE: 1998-12-16  
; EARLIER APPLICATION NUMBER: 60/017,354  
; EARLIER FILING DATE: 1996-04-26  
; EARLIER APPLICATION NUMBER: 60/030,590  
; EARLIER FILING DATE: 1995-11-14  
; EARLIER APPLICATION NUMBER: 08/800,929  
; EARLIER FILING DATE: 1997-02-13  
; NUMBER OF SEQ ID NOS: 17  
; SOFTWARE: FastSEQ for Windows Version 4.0  
; SEQ ID NO 8  
; LENGTH: 618  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
; US-09-212-971-8

Query Match 99.1%; Score 3247; DB 3; Length 618;  
Best Local Similarity 99.4%; Pred. No. 3.8e-305;  
Matches 614; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

Qy 1 MHKTASORLFPGPSYONKSIIMEDSTIISDWTSNSNKQKMYDFSCSLYRMSTYSPAGV 60  
Db 1 MHKTASORLFPGPSYONKSIIMEDSTIISDWTSNSNKQKMYDFSCSLYRMSTYSPAGV 60

Qy 61 PVRSLSLARAGFYYTGNDVKCFCGIMLDNWKLQGDSP1QKHKOQYPSCSFIQNLVSAS 120  
Db 61 PVRSLSLARAGFYYTGNDVKCFCGIMLDNWKLQGDSP1QKHKOQYPSCSFIQNLVSAS 120

Qy 121 LGSTSKNTSPMRNSFAHSLSPTEHLSSLFSGSYSSLSPNPLNSRAVEIDSSRTNPYSA 180  
Db 121 LGSTSKNTSPMRNSFAHSLSPTEHLSSLFSGSYSSLSPNPLNSRAVEIDSSRTNPYSA 180

Qy 181 MSTEEARPLTYHMWPLTPLSSELARAGFYIYGCDRVCACGGKLSNWEPKDAMSEH 240  
Db 181 MSTEEARPLTYHMWPLTPLSSELARAGFYIYGCDRVCACGGKLSNWEPKDAMSEH 240

Qy 241 RRHFNPNCPLLENSLETFRSISNLSMOHTAARMRTMWP;SVPVQPEQQLASAGFYVGR 300  
Db 241 RRHFNPNCPLLENSLETFRSISNLSMOHTAARMRTMWP;SVPVQPEQQLASAGFYVGR 300

Qy 301 NDDVKCFCCDGGLRCWESGDDPWVHAKWPRCEPLRMQ;QEFVDEIOPGRPHLQLL 360  
Db 301 NDDVKCFCCDGGLRCWESGDDPWVHAKWPRCEPLRMQ;QEFVDEIOPGRPHLQLL 360

Qy 361 STSDTGRENADP1THRGPGESSDAVMNTPTVKSALMGENDLVQTKVSKILLT 420  
Db 361 STSDTGRENADP1THRGPGESSDAVMNTPTVKSALMGENDLVQTKVSKILLT 420

Qy 421 GENYKTVNDIVSALANAEDKEREEEKQAEEMASDLSLIRKQNMALFOQLTCVLPILD 480  
Db 421 GENYKTVNDIVSALANAEDKEREEEKQAEEMASDLSLIRKQNMALFOQLTCVLPILD 480

Qy 481 NILKANVINKQEHDTIKQKTOIPLQARELIDTILYKGNAANIFKNCLEIDSTYKLF 540  
Db 481 NILKANVINKQEHDTIKQKTOIPLQARELIDTILYKGNAANIFKNCLEIDSTYKLF 540

Qy 481 NILKANVINKQEHDTIKQKTOIPLQARELIDTILYKGNAANIFKNCLEIDSTYKLF 540  
Db 481 NILKANVINKQEHDTIKQKTOIPLQARELIDTILYKGNAANIFKNCLEIDSTYKLF 540

RESULT 6  
US-08-800-929A-8  
; Sequence 8, Application US/08800929A  
; Patent No. 6133437  
; GENERAL INFORMATION:  
; APPLICANT: Korneluk, Robert G  
; APPLICANT: Mackenzie, Alexander E  
; APPLICANT: Liston, Peter  
; APPLICANT: Baird, Stephen  
; APPLICANT: Tsang, Benjamin K  
; TITLE OF INVENTION: DETECTION AND MODULATION OF TAPS AND NAIP FOR THE DIAGNOSIS AND TREATMENT OF PROLIFERATIVE DISEASE  
; FILE REFERENCE: 07891/00902  
; CURRENT APPLICATION NUMBER: US/09/212,971B  
; EARLIER FILING DATE: 1996-04-26  
; EARLIER APPLICATION NUMBER: 60/030,590  
; EARLIER FILING DATE: 1995-11-14  
; EARLIER APPLICATION NUMBER: 08/800,929  
; EARLIER FILING DATE: 1997-02-13  
; NUMBER OF SEQ ID NOS: 17  
; SOFTWARE: FastSEQ for Windows Version 4.0  
; SEQ ID NO 8  
; LENGTH: 618  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
; US-09-212-971-8

Query Match 99.1%; Score 3247; DB 3; Length 618;  
Best Local Similarity 99.4%; Pred. No. 3.8e-305;  
Matches 614; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

Qy 1 MHKTASORLFPGPSYONKSIIMEDSTIISDWTSNSNKQKMYDFSCSLYRMSTYSPAGV 60  
Db 1 MHKTASORLFPGPSYONKSIIMEDSTIISDWTSNSNKQKMYDFSCSLYRMSTYSPAGV 60

QY 121 LGSTS KNTSPMRNSFAHSLSPNLSPLHSSLFSGSYSSLSPPNLNSRAVEDISSRTNP SYA 180  
; Db 121 LGSTS KNTSPMRNSFAHSLSPNLSPLHSSLFSGSYSSLSPPNLNSRAVEDISSRTNP SYA 180  
; QY 181 MSTEEARFLTYHMWPLTLPSPSELARAGFYIGPDRVACFACGGKLNSWEPKDAMSEH 240  
; Db 181 MSTEEARFLTYHMWPLTLPSPSELARAGFYIGPDRVACFACGGKLNSWEPKDAMSEH 240  
; QY 241 RRHEFPNCPLFLENSLETLRFSISNLSMOTHAAARMRTMTMMESSVPUQPEQBLASAGFYVGR 300  
; Db 241 RRHEFPNCPLFLENSLETLRFSISNLSMOTHAAARMRTMTMMESSVPUQPEQBLASAGFYVGR 300  
; QY 301 NDDVKCFCDDGLRCWESGDDPWEHAKWPRCEFLIRMKQGPVDIOTGRYPHILBOLL 360  
; Db 301 NDDVKCFCDDGLRCWESGDDPWEHAKWPRCEFLIRMKQGPVDIOTGRYPHILBOLL 360  
; QY 361 STSDTGEENADPPIHFGPGRSSESSEAVMNTPVWSALEMGPNRDLVKQTQSKLT 420  
; Db 361 STSDTGEENADPPIHFGPGRSSESSEAVMNTPVWSALEMGPNRDLVKQTQSKLT 420  
; QY 361 STSDTGEENADPPIHFGPGRSSESSEAVMNTPVWSALEMGPNRDLVKQTQSKLT 420  
; Db 421 GENYKTNDIVSALLNADEKREKEEKKOAEEMASDLSLIRKRNALFOQLTCVLPILD 480  
; Db 421 GENYKTNDIVSALLNADEKREKEEKKOAEEMASDLSLIRKRNALFOQLTCVLPILD 480  
; QY 481 NLJKA VINKOEHDIKOKTOIPLQARELIDITLVKGNAANTFKNCLEKIDSTLXKNLF 540  
; Db 481 NLJKA VINKOEHDIKOKTOIPLQARELIDITLVKGNAANTFKNCLEKIDSTLXKNLF 540  
; QY 541 VDKNMKYIPTEDVSGLSLEQRLQBERTCKVCMDKEVSVVFPCGHLWVCQECAPSLR 600  
; Db 541 VDKNMKYIPTEDVSGLSLEQRLQBERTCKVCMDKEVSVVFPCGHLWVCQECAPSLR 600  
; QY 601 KCPICRGIIKGTVRTPLS 618  
; Db 601 KCPICRGIIKGTVRTPLS 618  
; QY 601 KCPICRGIIKGTVRTPLS 618  
; Db 601 KCPICRGIIKGTVRTPLS 618

**RESULT 7**

; Sequence 8, Application US/09617053A  
; Patent No. 6300492  
; GENERAL INFORMATION:  
; APPLICANT: Korneluk, Robert G  
; APPLICANT: Mackenzie, Alexander B  
; APPLICANT: Liston, Peter  
; APPLICANT: Baird, Stephen  
; APPLICANT: Tsang, Benjamin K  
; APPLICANT: Pratt, Christine  
; TITLE OF INVENTION: DETECTION AND MODULATION OF IAPS AND  
; TITLE OF INVENTION: NAIP FOR THE DIAGNOSIS AND TREATMENT OF PROLIFERATIVE  
; FILE REFERENCE: 07891/009003  
; CURRENT APPLICATION NUMBER: US/09/617, 053A  
; CURRENT FILING DATE: 2000-07-14  
; PRIOR APPLICATION NUMBER: US 08/800, 929  
; PRIOR FILING DATE: 1997-02-13  
; NUMBER OF SEQ ID NOS: 17  
; SOFTWARE: FastSEQ for Windows Version 4.0  
; SEQ ID NO 8  
; LENGTH: 618  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
; US-09-617-053A-8

Query Match 99.1%; Score 3247; DB 4; Length 618;  
Best Local Similarity 99.4%; Pred. No. 3.8e-305; Matches 614; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 61 PVSERSLARAGFYTGVDKVKCFCCGIMLDWKLGDSPIOKHQLYPSCSFI ONLY SAS 120  
; Db 61 PVSERSLARAGFYTGVDKVKCFCCGIMLDWKLGDSPIOKHQLYPSCSFI ONLY SAS 120  
; QY 121 LGSTS KNTSPMRNSFAHSLSPNLSPLHSSLFSGSYSSLSPPNLNSRAVEDISSRTNP SYA 180  
; Db 121 LGSTS KNTSPMRNSFAHSLSPNLSPLHSSLFSGSYSSLSPPNLNSRAVEDISSRTNP SYA 180  
; QY 181 MSTEEARFLTYHMWPLTLPSPSELARAGFYIGPDRVACFACGGKLNSWEPKDAMSEH 240  
; Db 181 MSTEEARFLTYHMWPLTLPSPSELARAGFYIGPDRVACFACGGKLNSWEPKDAMSEH 240  
; QY 241 RRHEFPNCPLFLENSLETLRFSISNLSMOTHAAARMRTMTMMESSVPUQPEQBLASAGFYVGR 300  
; Db 241 RRHEFPNCPLFLENSLETLRFSISNLSMOTHAAARMRTMTMMESSVPUQPEQBLASAGFYVGR 300  
; QY 301 NDDVKCFCDDGLRCWESGDDPWEHAKWPRCEFLIRMKQGPVDIOTGRYPHILBOLL 360  
; Db 301 NDDVKCFCDDGLRCWESGDDPWEHAKWPRCEFLIRMKQGPVDIOTGRYPHILBOLL 360  
; QY 361 STSDTGEENADPPIHFGPGRSSESSEAVMNTPVWSALEMGPNRDLVKQTQSKLT 420  
; Db 361 STSDTGEENADPPIHFGPGRSSESSEAVMNTPVWSALEMGPNRDLVKQTQSKLT 420  
; QY 361 STSDTGEENADPPIHFGPGRSSESSEAVMNTPVWSALEMGPNRDLVKQTQSKLT 420  
; Db 421 GENYKTNDIVSALLNADEKREKEEKKOAEEMASDLSLIRKRNALFOQLTCVLPILD 480  
; Db 421 GENYKTNDIVSALLNADEKREKEEKKOAEEMASDLSLIRKRNALFOQLTCVLPILD 480  
; QY 481 NLJKA VINKOEHDIKOKTOIPLQARELIDITLVKGNAANTFKNCLEKIDSTLXKNLF 540  
; Db 481 NLJKA VINKOEHDIKOKTOIPLQARELIDITLVKGNAANTFKNCLEKIDSTLXKNLF 540  
; QY 541 VDKNMKYIPTEDVSGLSLEQRLQBERTCKVCMDKEVSVVFPCGHLWVCQECAPSLR 600  
; Db 541 VDKNMKYIPTEDVSGLSLEQRLQBERTCKVCMDKEVSVVFPCGHLWVCQECAPSLR 600  
; QY 601 KCPICRGIIKGTVRTPLS 618  
; Db 601 KCPICRGIIKGTVRTPLS 618  
; QY 601 KCPICRGIIKGTVRTPLS 618  
; Db 601 KCPICRGIIKGTVRTPLS 618

**RESULT 8**

; Sequence 8, Application US/09201936  
; Patent No. 6541457  
; GENERAL INFORMATION:  
; APPLICANT: Korneluk, Robert G.  
; APPLICANT: Mackenzie, Alexander B.  
; APPLICANT: Liston, Peter  
; APPLICANT: Baird, Stephen  
; APPLICANT: Pratt, Christine  
; TITLE OF INVENTION: MAMMALIAN IAP GENE FAMILY, PRIMERS,  
; TITLE OF INVENTION: PROBES, AND DETECTION METHODS  
; FILE REFERENCE: 07891/003003  
; CURRENT APPLICATION NUMBER: US/09/201, 936  
; CURRENT FILING DATE: 1998-12-01  
; EARLIER APPLICATION NUMBER: 09/011, 356  
; EARLIER FILING DATE: 1998-02-04  
; EARLIER APPLICATION NUMBER: PCT/IB96/01022  
; EARLIER FILING DATE: 1996-08-05  
; EARLIER APPLICATION NUMBER: 08/576, 956  
; EARLIER FILING DATE: 1995-12-22  
; EARLIER APPLICATION NUMBER: 08/511, 485  
; EARLIER FILING DATE: 1995-08-04  
; NUMBER OF SEQ ID NOS: 45  
; SOFTWARE: FastSEQ for Windows Version 3.0  
; SEQ ID NO 8  
; LENGTH: 618  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
; US-09-201-936-8

Query Match 99.1%; Score 3247; DB 4; Length 618;  
Best Local Similarity 99.4%; Pred. No. 3.8e-305; Matches 1; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 MHKTASORIIPPGPSYONTKSIMEDESTDLSDWTSNKQKQYDFSCELYNSTYSTPAGV 60  
; Db 1 MHKTASORIIPPGPSYONTKSIMEDESTDLSDWTSNKQKQYDFSCELYNSTYSTPAGV 60



STREET: 4 Embarcadero Center, Suite 3400  
 CITY: San Francisco  
 STATE: California  
 COUNTRY: USA  
 ZIP: 94111  
 COMPUTER READABLE FORM:  
 MEDIUM TYPE: Floppy disk  
 COMPUTER: IBM PC compatible  
 OPERATING SYSTEM: PC-DOS/MS-DOS  
 SOFTWARE: Patent Release #1.0, Version #1.30  
 CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: PCT/US96/12860  
 FILING DATE: 06 AUG 1996  
 CLASSIFICATION:  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: U.S. Serial Nos. 08/512,946 & 08/569,749  
 REFERENCE/DOCKET NUMBER: A-62464/DJB  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: (415)781-1989  
 TELEFAX: (415)398-3249  
 FORMATION FOR SEQ ID NO: 14:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 612 amino acids  
 TYPE: amino acid  
 STRANDEDNESS: single  
 TOPOLOGY: linear  
 MOLECULE TYPE: protein  
 IY Match 83.2%; Score 2728; DB 5; Length 612;  
 Local Similarity 83.4%; Pred. No. 6.2e-255;  
 Mismatches 517; Conserv. 45; Indels 10; Gaps 6;  
 PRT  
 1 MKITASQRLFFPGPSYQNIKSTMEDSTLSDWTNSNKQKQYDFSCELYRMSYSTFPAGV 60  
 1 MDKTVSQRLOGQGTLHQKLKRIMEKSTILSNWTKRSKEEKDFDSCELYRMSYSTAFPGV 60  
 61 PVRSERSLARAGFYTYGVNDKVKCFCGGLMDNWKLGLGSPQKHQLYPSCSFIQNLVSAS 120  
 61 PVRSERSLARAGFYTYGVNDKVKCFCGGLMDNWKLQGDSPVKEHROFYSCSFVQTLISAS 120  
 1.21 LGSTSNTSPMNSFAHSLSPTLEHSSLFSGSSYSSLSPNPLNSRAVEDISSRTNPYSA 180  
 1.21 LGSTSNTSPMNSFAHSLSPTLEHSSLFSGSSYSSLSPNPLNSRAVEDISSRTNPYSA 180  
 1.21 LGSTSNTSPMNSFAHS-SP-LER---GGIHSNLCCSPLNSRAVEDF-SSRMDPCSYA 173  
 181 MSTEEAREFLTYWMLPLTSPSELARAGFYTYIGPDRVACFACGGKLNSNWPKDAMSEH 240  
 174 MSTEEAREFLTYSMWPLSPSELARAGFYTYIGPDRVACFACGGKLNSNWPKDAMSEH 233  
 241 RRHFNPNCPLFLENSLETLRFSISNLSMOTHARMRTEMYNSSPVPOPEQDASAGFYVR 300  
 241 RRHFNPNCPLFLENSLETLRFSISNLSMOTHARMRTEMYNSSPVPOPEQDASAGFYVR 300  
 234 RRHFNPNCPLFLENSLETLRFSISNLSMOTHARMRTEMYNSSPVPOPEQDASAGFYVR 293  
 Query 1 MKITASQRLFFPGPSYQNIKSTMEDSTLSDWTNSNKQKQYDFSCELYRMSYSTFPAGV 60  
 Db 1 MDKTVSQRLOGQGTLHQKLKRIMEKSTILSNWTKRSKEEKDFDSCELYRMSYSTAFPGV 60  
 61 PVRSERSLARAGFYTYGVNDKVKCFCGGLMDNWKLGLGSPQKHQLYPSCSFIQNLVSAS 120  
 61 PVRSERSLARAGFYTYGVNDKVKCFCGGLMDNWKLQGDSPVKEHROFYSCSFVQTLISAS 120  
 Query 121 LGSTSNTSPMNSFAHSLSPTLEHSSLFSGSSYSSLSPNPLNSRAVEDISSRTNPYSA 180  
 Db 121 LGSTSNTSPMNSFAHSLSPTLEHSSLFSGSSYSSLSPNPLNSRAVEDISSRTNPYSA 180  
 Db 121 LGSTSNTSPMNSFAHS-SP-LER---GGIHSNLCCSPLNSRAVEDF-SSRMDPCSYA 173  
 181 MSTEEAREFLTYWMLPLTSPSELARAGFYTYIGPDRVACFACGGKLNSNWPKDAMSEH 240  
 174 MSTEEAREFLTYSMWPLSPSELARAGFYTYIGPDRVACFACGGKLNSNWPKDAMSEH 233  
 301 NDDVKCRCDDGGIRCWESGDPWHEAKWPRCPFLRIMKGQBFVDETOGRYPHLLQQL 360  
 294 NDDVKCFCDDGGIRCWEPGDPWHEAKWPRCPFLRIMKGQBFVDETOGRYPHLLQQL 353  
 361 STSDTGPENADP--PIHFGPGESESSEDAMNTPVTSAL3MGFDLWKOTVSKIL 418  
 354 STSDTGPENADP--PIHFGPGESESSEDAMNTPVTSAL3MGFDLWKOTVSKIL 412  
 419 TGTGENYKTWIDIVSALLNEDKEREEGEKOAEEMAASDLSLARNOMALFOOLTCVLP 478  
 413 ATGENDYRTWIDIVSVILLNAEDERREEEKEQTEEMASDLSLIRKOMALFOOLTCVLP 472  
 479 LDNLKANVINKOEHDTIKOKTOIPLORRELIDTILVKGNAAANIKNLKEIDSTYKN 538  
 473 LDNLLEASYVTKOEDDITRQKTOIPLQRELIDTILVKGNAAANIKNLKEIDSTYEN 532

RESULT 11  
 US-09-212-971-14  
 ; Sequence 14, Application US/09212971B  
 ; Patent No. 6107041  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Korneluk, Robert G  
 ; APPLICANT: MacKenzie, Alexander E  
 ; APPLICANT: Liston, Peter  
 ; APPLICANT: Baird, Stephen  
 ; APPLICANT: Tsang, Benjamin K  
 ; APPLICANT: Pratt, Christine  
 ; TITLE OF INVENTION: DETECTION AND MODULATION OF IAES AND  
 ; TITLE OF INVENTION: NAIP FOR THE DIAGNOSIS AND TREATMENT OF PROLIFERATIVE  
 ; TITLE OF INVENTION: DISEASE  
 ; FILE REFERENCE: 07891/009002  
 ; CURRENT APPLICATION NUMBER: US/09/212,971B  
 ; CURRENT FILING DATE: 1998-12-16  
 ; EARLIER APPLICATION NUMBER: 60/017,354  
 ; EARLIER FILING DATE: 1996-04-25  
 ; EARLIER APPLICATION NUMBER: 60/030,590  
 ; EARLIER FILING DATE: 1996-11-14  
 ; EARLIER APPLICATION NUMBER: 60/0800,929  
 ; EARLIER FILING DATE: 1997-02-13  
 ; NUMBER OF SEQ ID NOS: 17  
 ; SOFTWARE: PartSeq for Windows Version 4.0  
 ; SEQ ID NO 14  
 ; LENGTH: 612  
 ; TYPE: PRT  
 ; ORGANISM: Mus musculus  
 ; US-09-212-971-14

Query Match 83.1%; Score 2724; DB 3; Length 612;  
 Best Local Similarity 83.2%; Pred. No. 1.5e-254;  
 Matches 516; Conserv. 46; Mismatches 48; Indels 10; Gaps 6;

RESULT 12  
 US-08-800-929A-14  
 ; Sequence 14, Application US/08800929A  
 ; Patent No. 6133437  
 GENERAL INFORMATION:  
 APPLICANT: Korneluk, Robert G  
 APPLICANT: Mackenzie, Alexander E  
 APPLICANT: Liston, Peter  
 APPLICANT: Baird, Stephen  
 APPLICANT: Tsang, Benjamin K  
 APPLICANT: Pratt, Christine  
 TITLE OF INVENTION: DETECTION AND MODULATION OF LAPS AND NAIP FOR THE DIAGNOSIS AND TREATMENT OF PROLIFERATIVE DISEASE  
 NUMBER OF SEQUENCES: 17  
 CORRESPONDENCE ADDRESS:  
 ADDRESSEE: Clark & Elbing LLP  
 STREET: 176 Federal Street  
 CITY: Boston  
 STATE: MA  
 COUNTRY: USA  
 ZIP: 02110  
 COMPUTER READABLE FORM:  
 MEDIUM TYPE: Diskette  
 COMPUTER: IBM Compatible  
 OPERATING SYSTEM: DOS  
 SOFTWARE: FastSEQ for Windows Version 2.0  
 CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: US/08/800,929A  
 FILING DATE: 13-FEB-1997  
 CLASSIFICATION: 424  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: 60/030,590  
 FILING DATE: 14-NOV-1996  
 APPLICATION NUMBER: 60/017,354  
 FILING DATE: 26-APR-1996  
 ATTORNEY/AGENT INFORMATION:  
 NAME: Bicker-Brady, Kristina  
 REGISTRATION NUMBER:  
 REFERENCE/DOCKET NUMBER: 07891/009001  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: 617-428-0200  
 TELEFAX: 617-428-7045  
 TELEX:  
 INFORMATION FOR SEQ ID NO: 14:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 612 amino acids  
 TYPE: amino acid  
 STRANDEDNESS: single  
 TOPOLOGY: linear  
 MOLECULE TYPE: protein  
 US-08-800-929A-14

Query Match 83.1%; Score 2724; DB 3; Length 612;  
 Best Local Similarity 83.2%; Pred. No. 1.5e-254;  
 Matches 516; Conservative 46; Mismatches 48; Indels 10; Gaps 6;

---

RESULT 13  
 US-09-617-053A-14  
 ; Sequence 14, Application US/09617053A  
 ; Patent No. 6300492  
 GENERAL INFORMATION:  
 APPLICANT: Korneluk, Robert G  
 APPLICANT: Mackenzie, Alexander E  
 APPLICANT: Liston, Peter  
 APPLICANT: Baird, Stephen  
 APPLICANT: Tsang, Benjamin K  
 APPLICANT: Pratt, Christine  
 TITLE OF INVENTION: DETECTION AND MODULATION OF LAPS AND NAIP FOR THE DIAGNOSIS AND TREATMENT OF PROLIFERATIVE DISEASE  
 TITLE OF INVENTION: DISEASE  
 FILE REFERENCE: 07891/009003  
 CURRENT APPLICATION NUMBER: US/09/617,053A  
 CURRENT FILING DATE: 2000-07-14  
 PRIOR APPLICATION NUMBER: US 08/800,929  
 PRIOR FILING DATE: 1997-02-13  
 NUMBER OF SEQ ID NOS: 17  
 SOFTWARE: FastSEQ for Windows Version 4.0  
 SEQ ID NO 14  
 LENGTH: 612  
 TYPE: PRT  
 ORGANISM: Mus musculus  
 US-09-617-053A-14

Query Match 83.1%; Score 2724; DB 4; Length 612;

Best Local Similarity 83.2%; Pred. No. 1.5e-254; Mismatches 48; Indels 10; Gaps 6; Matches 516; Conservative 46; Mismatches 48; Indels 10; Gaps 6; TYPE: PRT; ORGANISM: Mus musculus ; US-09-201-936-42

Query Match Best Local Similarity 83.8%; Pred. No. 8.4e-248; Mismatches 43; Indels 10; Gaps 6; Matches 502; Conservative 44; Mismatches 43; Indels 10; Gaps 6; TYPE: PRT; ORGANISM: Mus musculus ; US-09-201-936-42

Query Match Best Local Similarity 83.8%; Pred. No. 8.4e-248; Mismatches 43; Indels 10; Gaps 6; Matches 502; Conservative 44; Mismatches 43; Indels 10; Gaps 6; TYPE: PRT; ORGANISM: Mus musculus ; US-09-201-936-42

QY 1 MEKTKASQRFLPGPSYONIKSIMEDESTDILSDWTSNQKQMKVYDSCLYRMSTTSPRGV 60  
Db 1 MDKTVSQRLGGQTILHQKLKRIMKSTILSNWTKESERKMKFDSCLYRMSTTSPRGV 60  
QY 61 PYVERSALARAGFYTGVNDKVKCFCGGMLDNWKLGDSP1QKHQLYPSCSP1QI1VSAS 120  
Db 61 PYVERSALARAGFYTGVNDKVKCFCGGMLDNWKLGDSP1QKHQLYPSCSP1QI1VSAS 120  
QY 121 LGSTSNTSPMRSFAHSLSP1TLEHSLSLPSGSYSSLSPNPLNSRATEDISRTNPWSYA 180  
Db 121 LQSPSKNMSPVKSRRFAHS-SP-LER---GGIHSNLCSSP1NSRAVEDF-SSRMDPCSYA 173  
QY 181 MSTEEARFLTYMMPLTFLSP1ELSETORFSISNLSMOTHAAERMTPMWHSSVPVQPEQLAGFYIGPDRVA'CACCGKLSNWEPKDAMSER 240  
Db 174 MSTEEARFLTYMMPLTFLSP1ELSETORFSISNLSMOTHAAERMTPMWHSSVPVQPEQLAGFYIGPDRVA'CACCGKLSNWEPKDAMSER 233  
QY 241 RRHFPNCPLPLESLETLRFS1NLSMOTHAAERMTPMWHSSVPVQPEQLAGFYIGPDRVA'CACCGKLSNWEPKDAMSER 240  
Db 234 RRHFPNCPLPLESLETLRFS1NLSMOTHAAERMTPMWHSSVPVQPEQLAGFYIGPDRVA'CACCGKLSNWEPKDAMSER 240  
QY 301 NDDVKCPCDCGGILRCWBGSDDPWEHAKWPPCRBLIRMKGQEFVDBIQGRPHLRLQ 360  
Db 294 NDDVKCFCDCGGILRCWBGSDDPWEHAKWPPCRBLIRMKGQEFVDBIQGRPHLRLQ 360  
QY 361 STSDTGEENADP--PIIHFGQESSSEDAMVNNTPVKSALEMGMFNRLDVKOTVOSKIL 418  
Db 354 STSDTGEENADP--PIIHFGQESSSEDAMVNNTPVKSALEMGMFNRLDVKOTVOSKIL 412  
QY 419 TIGENYKTVNDIVSALLNAEDEKREEKEKOAEEMASDDLSLIRKNRMALFOOLTCVLP 478  
Db 413 ATGENYKTVNDIVSALLNAEDEKREEKEKOAEEMASDDLSLIRKNRMALFOOLTCVLP 472  
QY 479 LDNLKANTVINKOEHDI1KQK1Q1PLQARELDTITLVKGNAAN1FKNCLKE1DSTLYK 538  
Db 473 LDNLKANTVINKOEHDI1KQK1Q1PLQARELDTITLVKGNAAN1FKNCLKE1DSTLYK 532  
QY 539 LFUDKNMKY1PTEDVSGLSLEFQRLQEBERTCKVCMDEKVSVVPIPCGHLYVCQECAPS 598  
Db 533 LFVERNMKY1PTEDVSGLSLEFQRLQEBERTCKVCMDEREVSVVPIPCGHLYVCQECAPS 592  
QY 599 LRKCPICRG1KTGTVRTFLS 618  
Db 593 LRKCPICRG1KTGTVRTFLS 612

RESULT 14  
US-09-201-936-42  
; Sequence 42, Application US/09201936  
; Patent No. 6541457  
; GENERAL INFORMATION:  
; APPLICANT: Korneluk, Robert G.  
; APPLICANT: Mackenzie, Alexander E.  
; APPLICANT: Baird, Stephen  
; APPLICANT: Liston, Peter  
; TITLE OF INVENTION: MAMMALIAN TAP GENE FAMILY, PRIMERS, PROBES, AND DETECTION METHODS  
; FILE REFERENCE: 07891/003003  
; CURRENT APPLICATION NUMBER: US/09/201, 936  
; CURRENT FILING DATE: 1998-12-01  
; EARLIER APPLICATION NUMBER: 09/011, 356  
; EARLIER FILING DATE: 1998-02-04  
; EARLIER APPLICATION NUMBER: PCT/IB96/01022  
; EARLIER FILING DATE: 1996-08-05  
; EARLIER APPLICATION NUMBER: 08/576, 956  
; EARLIER FILING DATE: 1995-12-22  
; EARLIER APPLICATION NUMBER: 08/511, 485  
; EARLIER FILING DATE: 1995-08-04  
; NUMBER OF SEQ ID NOS: 45  
; SOFTWARE: FastSEQ for Windows Version 3.0  
; SEQ ID NO 42

RESULT 15  
US-08-569-749-4  
; Sequence 4, Application US/08569749  
; Patent No. 6187557  
; GENERAL INFORMATION:  
; APPLICANT: Rothe, Mike  
; APPLICANT: Goeddel, David V  
; TITLE OF INVENTION: INHIBITORS OF APOPTOSIS  
; NUMBER OF SEQUENCES: 14  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: FLISR, HOHBACH, TEST, ALBRITTON & HERBERT  
; STREET: 4 Embarcadero Center, Suite 3400  
; CITY: San Francisco  
; STATE: California  
; COUNTRY: USA  
; ZIP: 94111  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patentin Release #1.0, Version #1.30  
; APPLICATION NUMBER: US/08/569,749

FILING DATE:  
 CLASSIFICATION: 514  
 ATTORNEY/AGENT INFORMATION:  
 NAME: Brezner, David J.  
 REFISTRATION NUMBER: 24,774  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: (415) 781-1889  
 TELEFAX: (415) 398-3249  
 INFORMATION FOR SEQ ID NO: 4:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 604 amino acids  
 TYPE: amino acid  
 STRANDEDNESS: single  
 TOPOLOGY: Linear  
 MOLECULE TYPE: protein  
 US-08-569-749-4

Query Match 71.8%; Score 2353; DB 3; Length 604;  
 Best Local Similarity 72.8%; Pred. No. 1.2e-218;  
 Matches 440; Conservative 71; Mismatches 87; Indels 6; Gaps 5;

| Query Position | Subject Position | Sequence  |
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| Qy 1           | Db 1             | DKVKCFCGGMLDNWKLGDPIQKHKOLYPSCSFIQLNVLSA-SLGSTSKEVPLRSARAGFYVTGVN     |
| Qy 2           | Db 2             | NIVENSIIFSLNLMKSANTTEELKYLDSCLTENSTMSTYTFPGVPVSESLARGFYVTGVN          |
| Qy 3           | Db 3             | DKVKCFCGGMLDNWKLGDPIQKHKOLYPSCSFIQLNVLSA-SLGSTSKEVPLRSARAGFYVTGVN     |
| Qy 4           | Db 4             | 136 AHSISPLTEHSSLFSGSYSSLPNPLNSRAVEDDISSRTNPYSYAMSTEAEFLTYHMMP        |
| Qy 5           | Db 5             | 121 THSILPQTEENSGYFRGSYSNSPNSNPVNPNRANQDFSLALMRSYHCAANNENEARLLITFQTWP |
| Qy 6           | Db 6             | 196 LTFLSPSLEHSSLFSGSYSSLPNPLNSRAVEDDISSRTNPYSYAMSTEAEFLTYHMMP        |
| Qy 7           | Db 7             | 181 LTFLSPPTDIAKAGFYIIGPDRVACFACGGKLSNWEPKDAMSEHRRHFNPNCPPLENSL-      |
| Qy 8           | Db 8             | 255 ETLRFISINLSMOTHAARMRFTMYWPPSSVVPYOPELQASACFTYVGGRNDDYKCCFCDCGGLR  |
| Qy 9           | Db 9             | 241 DTSRVTVSNLSMOTHAARFKTFENPWPPSVLNVPEQLASACFTYVGNSDDYKCCFCDCGGLR    |
| Qy 10          | Db 10            | 315 CWESGDDPWTAKWPRCEFLIRMKQGEOFVDEIQRYPHILEQOLLSTSPTEGEENADPP        |
| Qy 11          | Db 11            | 301 CWESGDDPWTAKWPRCEFLIRKGQEFIRQOASVPHILEQOLLSTSDFGDAEES             |
| Qy 12          | Db 12            | 375 IIRGPGESESSEDAMMNTPYVKSALEMGEFNRLDVKQTVYSKILLTGENYKTNDIVSAL       |
| Qy 13          | Db 13            | 361 IIRGPGEHSEDAIMMNTEVINAAVEMGERSLSVKQTVYRKILATGENTRVLVDL            |
| Qy 14          | Db 14            | 435 LNAEDEKEREKEKEQAEEMASDDLSIRKRNMAFFQQLTCVLPILDNLKANVINKOEHQ        |
| Qy 15          | Db 15            | 421 LNAEDEIREERERATEREKESNDLILRKRNMAFFQQLTCVLPILDNLKANVINKOEHQ        |
| Qy 16          | Db 16            | 495 IIKQKTOPIQARELIDITILVKGNAAANTFKNCKLEIDSTLYKNLFVDKNMKYIPTEDVS      |
| Qy 17          | Db 17            | 481 VIKQKTOPIQARELIDITILVKGNAAATVFRNSLOEAEVVYHELFVQDQIKYIPTEDVS       |
| Qy 18          | Db 18            | 555 GLSLEEQLRQLQERTCKVMDKEVSVWFPQGHLVWCQECAPSLRKCPICRGIIKGTVR         |
| Qy 19          | Db 19            | 541 DLPVREQLRQLQBERTCKVMDKEVSVFIPCGHLVWCQECAPSLRKCPICRGIIKGTVR        |
| Qy 20          | Db 20            | 615 TFLS 618  |
| Qy 21          | Db 21            | 601 TFLS 604  |

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## OM protein - protein search, using SW model

Run on:

December 4, 2003, 16:55:06 ; Search time 90.9369 seconds

(without alignments)  
1263.930 Million cell updates/sec

**Title:** US-08-569-749-2  
**Perfect score:** 3277  
**Sequence:** 1 MHKTASQRLFPGPQSYONIKS.....LRRKCPICRGKIKGTVRTPLS 618

**Scoring table:** BLOSUM62  
 Gapop 10.0 , Gapext 0.5

**Searched:** 684280 seqb, 185983659 residues**Total number of hits satisfying chosen parameters:** 684280**Minimum DB seq length:** 0**Maximum DB seq length:** 200000000**Post-processing:** Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

**Database :**

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1: Published_Applications_HA.*:  

  2: /cgn2_6/ptodata/2/pupbaa/US07_PUBCOMB.pep:*
  3: /cgn2_6/ptodata/2/pupbaa/US06_NEW_PUB.pep:*
  4: /cgn2_6/ptodata/2/pupbaa/US06_PUBCOMB.pep:*
  5: /cgn2_6/ptodata/2/pupbaa/US07_NEW_PUB.pep:*
  6: /cgn2_6/ptodata/2/pupbaa/PCTUS_PUBCOMB.pep:*
  7: /cgn2_6/ptodata/2/pupbaa/US08_NEW_PUB.pep:*
  8: /cgn2_6/ptodata/2/pupbaa/US09_PUBCOMB.pep:*
  9: /cgn2_6/ptodata/2/pupbaa/US09B_PUBCOMB.pep:*
  10: /cgn2_6/ptodata/2/pupbaa/US09C_PUBCOMB.pep:*
  11: /cgn2_6/ptodata/2/pupbaa/US09C_PUBCOMB.pep:*
  12: /cgn2_6/ptodata/2/pupbaa/US09_NEW_PUB.pep:*
  13: /cgn2_6/ptodata/2/pupbaa/US10A_PUBCOMB.pep:*
  14: /cgn2_6/ptodata/2/pupbaa/US10B_PUBCOMB.pep:*
  15: /cgn2_6/ptodata/2/pupbaa/US10C_PUBCOMB.pep:*
  16: /cgn2_6/ptodata/2/pupbaa/US10C_PUBCOMB.pep:*
  17: /cgn2_6/ptodata/2/pupbaa/US60_NEW_PUB.pep:*
  18: /cgn2_6/ptodata/2/pupbaa/US60_PUBCOMB.pep:*
```

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

## SUMMARIES

| Result No. | Score | Query Match Length | DB ID | Description                              |
|------------|-------|--------------------|-------|--|
| 1          | 3277  | 100.0              | 618   | 12 US-10-232-286-2 Sequence 2, Appli     |
| 2          | 3277  | 100.0              | 618   | 15 US-10-153-668-338 Sequence 338, Appli |
| 3          | 3277  | 100.0              | 618   | 15 US-10-207-655-200 Sequence 200, Appli |
| 4          | 3247  | 99.1               | 618   | 10 US-09-974-592-8 Sequence 8, Appli     |
| 5          | 3247  | 99.1               | 618   | 10 US-09-201-936-8 Sequence 8, Appli     |
| 6          | 2728  | 83.2               | 612   | 12 US-10-232-286-4 Sequence 14, Appli    |
| 7          | 2724  | 83.1               | 612   | 10 US-09-974-592-14 Sequence 14, Appli   |
| 8          | 2654  | 81.0               | 591   | 10 US-09-201-936-42 Sequence 42, Appli   |
| 9          | 2353  | 71.8               | 604   | 12 US-10-232-286-4 Sequence 4, Appli     |
| 10         | 2353  | 71.8               | 604   | 12 US-10-141-618-6 Sequence 6, Appli     |
| 11         | 2332  | 71.2               | 604   | 10 US-09-974-592-6 Sequence 6, Appli     |
| 12         | 2332  | 71.2               | 604   | 10 US-09-201-936-6 Sequence 6, Appli     |
| 13         | 2326  | 71.0               | 438   | 8 US-08-464-588-2 Sequence 2, Appli      |
| 14         | 2326  | 71.0               | 438   | 8 US-10-323-643-2 Sequence 2, Appli      |
| 15         | 2172  | 66.3               | 600   | 10 US-09-974-592-12 Sequence 12, Appli   |

RESULT 1  
US-10-232-286-2; Sequence 2, Application US/10232286  
; Publication No. US20030143579A1

## GENERAL INFORMATION:

APPLICANT: Rothe, Mike

Goeddel, David V

TITLE OF INVENTION: INHIBITORS OF APOPTOSIS

NUMBER OF SEQUENCES: 14

CORRESPONDENCE ADDRESS:

ADDRESSEE: FLEIR, HOHBACK, TEST, ALBRITTON & HERRBERT  
 STREET: 4 Embarcadero Center, Suite 3400  
 CITY: San Francisco  
 STATE: California  
 COUNTRY: USA

ZIP: 94111

## COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: PatentIn Release #1.0, Version #1.30

## CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/10/232,286

FILING DATE: 30-Aug-2002

CLASSIFICATION: &lt;Unknown&gt;

## PRIOR APPLICATION DATA:

APPLICATION NUMBER: US/08/569,749

FILING DATE: &lt;Unknown&gt;

## ATTORNEY/AGENT INFORMATION:

NAME: Brezner, David J.

REGISTRATION NUMBER: 24,774

REFERENCE/DOCKET NUMBER: A-62464/DJB

TELECOMMUNICATION INFORMATION:

TELEPHONE: (415)781-1989

TELEFAX: (415)398-3249

INFORMATION FOR SEQ ID NO: 2:

SEQUENCE CHARACTERISTICS:

LENGTH: 618 amino acids

TYPE: amino acid  
 STRANDBENESS: single  
 TOPOLOGY: linear  
 MOLECULE TYPE: protein  
 ; SEQUENCE DESCRIPTION: SEQ ID NO: 2:  
 ; US-10-232-286-2

Query Match 100.0%; Score 3277; DB 15; Length 618;  
 Best Local Similarity 100.0%; Pred. No. 6e-281;  
 Matches 618; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MHKTASQRLLPGPSYONIKSIMEDSTILSDWNTNSNKKQKMYDFSCELYRMSYSTPAGV 60  
 Db 1 MHKTASQRLLPGPSYONIKSIMEDSTILSDWNTNSNKKQKMYDFSCELYRMSYSTPAGV 60

QY 61 PVRSERSLARAGFYYTGVNDVKVCPCCGIMLDNWKLGLDSFTOKHKOLYPSCSFTIONLVAS 120  
 Db 61 PVRSERSLARAGFYYTGVNDVKVCPCCGIMLDNWKLGLDSFTOKHKOLYPSCSFTIONLVAS 120

QY 121 LGSTSNTSPMRNSFAHSISPLTEHSSLFLSGSYSLSLSPNLSRATEDISSRTNPYSA 180  
 Db 121 LGSTSNTSPMRNSFAHSISPLTEHSSLFLSGSYSLSLSPNLSRATEDISSRTNPYSA 180

QY 181 MSTEEARFLTYHMWPLTLPSLSELARAGFYYTGPGRVA:FAAGGKLSNWEPKDDAMSEH 240  
 Db 181 MSTEEARFLTYHMWPLTLPSLSELARAGFYYTGPGRVA:FAAGGKLSNWEPKDDAMSEH 240

QY 241 RRHFPNCPPLENSLETTRSIISNLSMQTHAARMRTEMWYSSVPVQPEQLASAGFYVGR 300  
 Db 241 RRHFPNCPPLENSLETTRSIISNLSMQTHAARMRTEMWYSSVPVQPEQLASAGFYVGR 300

QY 301 NDDVKCFCDDGLRCWESGDPWVEHAKOFRPRCEFLIRMKQGEFVDEIIGRYPHLQL 360  
 Db 301 NDDVKCFCDDGLRCWESGDPWVEHAKOFRPRCEFLIRMKQGEFVDEIIGRYPHLQL 360

QY 361 STSDTGRENADPPIIHFGGRSSSEDAVMMNTPVVSALEMGMFNRDLVKQTQSKILT 420  
 Db 361 STSDTGRENADPPIIHFGGRSSSEDAVMMNTPVVSALEMGMFNRDLVKQTQSKILT 420

QY 421 GENYKTVDIVSALLNAEDEKREEKEKQAEEMASDDLSLRKNRMALFOQLTCVLPILD 480  
 Db 421 GENYKTVDIVSALLNAEDEKREEKEKQAEEMASDDLSLRKNRMALFOQLTCVLPILD 480

QY 481 NLLKANVINKOEHDIKOKTQIPLQARELDTILVKGNAANTFKNCLKEIDSTLYKNLF 540  
 Db 481 NLLKANVINKOEHDIKOKTQIPLQARELDTILVKGNAANTFKNCLKEIDSTLYKNLF 540

QY 541 VDKNMKYIPTEDVSGSLLEQRLRQEERTCKVMDKEVSVFPCGHLVVCQBCAPSLR 600  
 Db 541 VDKNMKYIPTEDVSGSLLEQRLRQEERTCKVMDKEVSVFPCGHLVVCQBCAPSLR 600

QY 601 KCPICRGIIKGTVRTLTS 618  
 Db 601 KCPICRGIIKGTVRTLTS 618

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RESULT 2  
 US-10-153-669-338  
 ; Sequence 338, Application US/10153668  
 ; Publication No. US20030092616A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: HONDA, Goichi  
 ; APPLICANT: MATSUO, Akio  
 ; APPLICANT: MURAMATSU, Shuji  
 ; APPLICANT: ISHIKAWA, Kenya  
 ; TITLE OF INVENTION: STAT6 Activating Gene  
 ; FILE REFERENCE: 1234-0207P  
 ; CURRENT FILING DATE: 2002-05-24  
 ; PRIOR APPLICATION NUMBER: US 60/293, 172  
 ; PRIOR FILING DATE: 2001-05-25  
 ; PRIOR APPLICATION NUMBER: US 60/316, 031  
 ; PRIOR FILING DATE: 2001-08-31

---

RESULT 3<sup>3</sup>  
 US-10-207-655-200  
 ; Sequence 200, Application US/10207655  
 ; Publication No. US20030118592A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Ledbetter, Jeffrey A.  
 ; APPLICANT: Hayden-Ledbetter, Martha S.  
 ; TITLE OF INVENTION: BINDING DOMAIN-IMMUNOGLOBULIN FUSION PROTEINS

FILE REFERENCE: 390069.401C1  
CURRENT APPLICATION NUMBER: US/10/207,655  
CURRENT FILING DATE: 2002-07-25  
NUMBER OF SEQ ID NOS: 426  
SOFTWARE: PatentIn version 3.0  
SEQ ID NO 200  
LENGTH: 618  
TYPE: PRT  
ORGANISM: Homo sapiens  
-10-207-655-200

EX-136 AND DRAUGNE. 339005-11-011  
CURRENT APPLICATION NUMBER: US/10/207,655  
CURRENT FILING DATE: 2002-07-25  
NUMBER OF SEQ ID NOS: 426  
SOFTWARE: PatentIn version 3.0  
SEQ ID NO 200  
LENGTH: 618  
TYPE: PRT  
ORGANISM: Homo sapiens  
IDS-10-207-655-200

TITLE OF INVENTION: DISEASE  
FILE REFERENCE: 07891/009004  
CURRENT APPLICATION NUMBER: US/09/974,592  
CURRENT FILING DATE: 2001-10-09  
PRIOR APPLICATION NUMBER: US 09/617,053  
PRIOR FILING DATE: 2000-07-14  
PRIOR APPLICATION NUMBER: US 08/800,929  
PRIOR FILING DATE: 1997-02-13  
NUMBER OF SEQ ID NOS: 17  
SOFTWARE: FastSEQ for Windows Version 4.0

LENGTH: 618  
 TYPE: PRT  
 ORGANISM: HOMO sapiens  
 US-09-974-592-8  
 Query Match 99.1% Score 3247; DB 10; Length 618;  
 Best Local Similarity 99.4%; Pred. No. 2; 7e-278;  
 Matches 614; Conservative 0; Mismatches 4; Indels 0; Gaps 0;  
 Db 1 MHKTTASQRLFPGPSYQIKSIMEDESTLSDWTNSNKQKXDFSCELYRNUYSTSTFPAGV 60  
 Db 1 MHKTTASQRLFPGPSYQIKSIMEDESTLSDWTNSNKQKXDFSCELYRNUYSTSTFPAGV 60  
 Qy 61 PVSERSLARAGFYIIGNDRKFCFCGMLDNWKLGSPDQRHKOLYPSSPIONLVAS 120  
 Db 61 PVSERSLARAGFYIIGNDRKFCFCGMLDNWKLGSPDQRHKOLYPSSPIONLVAS 120  
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 Db 121 LGSTSKNTSPMRNSPAHSLSPTELEHSSLFSGSYSSLSNPNSRAVEDISSSRTPSYA 180  
 Qy 181 MSTEEARFLTYHWWPLTFLSPSELARAGFYIIGPDRVACFACGGKLSSWBPKDAMSEH 240  
 Db 181 MSTEEARFLTYHWWPLTFLSPSELARAGFYIIGPDRVACFACGGKLSSWBPKDAMSEH 240  
 Qy 241 RRHFPICPPLENSETIRFSISNLSMQTHAARMRTFMWPSVPVQPEQILASAGFYWGR 300  
 Db 241 RRHFPICPPLENSETIRFSISNLSMQTHAARMRTFMWPSVPVQPEQILASAGFYWGR 300  
 Qy 301 NDDVKFCFCDGGLRCKWESGDDPWVHAKWPRCEFLRMKGQFVDELCORYPHILEQL 360  
 Db 301 NDDVKFCFCDGGLRCKWESGDDPWVHAKWPRCEFLRMKGQFVDELCORYPHILEQL 360  
 Qy 361 STSDTGEENADPPIHFGPGESSSEAVMNTPVVKSALEMGMFNRDLYQTQVSKILLT 420  
 Db 361 STSDTGEENADPPIHFGPGESSSEAVMNTPVVKSALEMGMFNRDLYQTQVSKILLT 420  
 Qy 421 GENYKTNDIVSALLNAEDEBKEREEKEKOABMASDDISLIRNORMALFOQTCVPLID 480  
 Db 421 GENYKTNDIVSALLNAEDEBKEREEKEKOABMASDDISLIRNORMALFOQTCVPLID 480  
 Qy 481 NLKANVINKOEHDTIKOKTOIPLQARELIDTLVKGNAANIKNCLKEIDSTLYKLF 540  
 Db 481 NLKANVINKOEHDTIKOKTOIPLQARELIDTLVKGNAANIKNCLKEIDSTLYKLF 540  
 Qy 541 VDKNMKVIPTEDVSGLSLEQRLRQBERTCKVCMDEKEVSVFIPCGHIVQCQCAPSLR 600  
 Db 541 VDKNMKVIPTEDVSGLSLEQRLRQBERTCKVCMDEKEVSVFIPCGHIVQCQCAPSLR 600  
 Qy 601 KCPTCIGIIIGTVRTELS 618  
 Db 601 KCPTCIGIIIGTVRTELS 618

APPLICANT: Liston, Peter  
 TITLE OF INVENTION: MAMMALIAN IAP GENE FAMILY, PRIMERS,  
 FILE REFERENCE: 07891/003003  
 CURRENT APPLICATION NUMBER: US/09/201,936  
 EARLIER FILING DATE: 1998-12-01  
 EARLIER APPLICATION NUMBER: 09/011,356  
 EARLIER FILING DATE: 1998-02-04  
 EARLIER APPLICATION NUMBER: PCT/IB96/01022  
 EARLIER FILING DATE: 1995-08-05  
 EARLIER APPLICATION NUMBER: 08/576,956  
 EARLIER FILING DATE: 1995-12-22  
 EARLIER APPLICATION NUMBER: 08/511,485  
 EARLIER FILING DATE: 1995-08-04  
 NUMBER OF SEQ ID NOS: 45  
 SOFTWARE: FastSEQ for Windows Version 3.0  
 SEQ ID NO: 8  
 LENGTH: 618  
 TYPE: PRY  
 ORGANISM: Homo sapiens  
 US-09-201-936-8

Query Match 99.1%; Score 3247; DB 10; Length 618;  
 Best Local Similarity 99.4%; Pred. No. 2.7e-278; Matches 614; Conservative 0; Mismatches 4; Indels 0; Gaps 0;  
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 Db 1 MHKTASORLPPGPSYONIKSIMEDSTILSDWTNSNKQKMKYDFSCELYRMSTYSTPAGV 60  
 QY 61 PGVERSLSALARAGFYYTGVNDVKVCFCCGIMLDNWKLGDSP1OKHKOLYPSCSFIONLVAS 120  
 61 PGVERSLSALARAGFYYTGVNDVKVCFCCGIMLDNWKLGDSP1OKHKOLYPSCSFIONLVAS 120  
 QY 121 LGSTSNTSPMRNSFAHSISPTLEHSSLFSGSYSLSLSPNPLNSRAVEDISSRTNPYSA 180  
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 Db 181 MSTEEARFLTYHMWPLTFLSPSELARAGFYTGPGDRVACFGGKLSNWEPKDAMSEH 240  
 QY 181 MSTEEARFLTYHMWPLTFLSPSELARAGFYTGPGDRVACFGGKLSNWEPKDAMSEH 240  
 Db 181 MSTEEARFLTYHMWPLTFLSPSELARAGFYTGPGDRVACFGGKLSNWEPKDAMSEH 240  
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 Db 241 RRHFNPCHLENSLETLPFSISNLSMOTHAARMRTFMWUSSVPOPEQALASGYYVGR 300  
 QY 301 NDDVKCFCGCGGLRCWRSDDPWEAKWPRCEFLIRMGQEFVDETOGRYPHILEQI 360  
 301 NDDVKCFCGCGGLRCWRSDDPWEAKWPRCEFLIRMGQEFVDETOGRYPHILEQI 360  
 QY 361 STSDTTGRENADPPIIHPGPGESSESDAVMNTPPVKSALLEMGPNRDLVKQTQSKILT 420  
 361 STSDTTGRENADPPIIHPGPGESSESDAVMNTPPVKSALLEMGPNRDLVKQTQSKILT 420  
 Db 421 GENYKTVNDIVSALLNADEKREEKEKEQAEEMASDOLSLIRKNRMALFOQLTCVPLID 480  
 421 GENYKTVNDIVSALLNADEKREEKEKEQAEEMASDOLSLIRKNRMALFOQLTCVPLID 480  
 QY 481 NLKANYVINKQEHDTIKQKTIQIPLQAERELDTILVKGMAANIPKNCLEKEIDSTYKQLP 540  
 481 NLKANYVINKQEHDTIKQKTIQIPLQAERELDTILVKGMAANIPKNCLEKEIDSTYKQLP 540  
 QY 541 VDKNMKYIPTEDVSGSLSEFQLRQBERTCKVCMOKEVSYIFPCGHLYVQECASLR 600  
 541 VDKNMKYIPTEDVSGSLSEFQLRQBERTCKVCMOKEVSYIFPCGHLYVQECASLR 600  
 QY 601 KCPICRGSIKGTVTRFLS 618  
 Db 601 KCPICRGSIKGTVTRFLS 618

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US-10-232-286-14

Query Match 83.2%; Score 2728; DB 12; Length 612;  
 Best Local Similarity 83.4%; Pred. No. 2.3e-232; Matches 517; Conservative 45; Mismatches 48; Indels 10; Gaps 6;  
 QY 1 MHKTASORLPPGPSYONIKSIMEDSTILSDWTNSNKQKMKYDFSCELYRMSTYSTPAGV 60  
 Db 1 MHKTASORLPPGPSYONIKSIMEDSTILSDWTNSNKQKMKYDFSCELYRMSTYSTPAGV 60  
 QY 61 PGVERSLSALARAGFYYTGVNDVKVCFCCGIMLDNWKLGDSP1OKHKOLYPSCSFIONLVAS 120  
 61 PGVERSLSALARAGFYYTGVNDVKVCFCCGIMLDNWKLGDSP1OKHKOLYPSCSFIONLVAS 120  
 QY 121 LGSTSNTSPMRNSFAHSISPTLEHSSLFSGSYSLSLSPNPLNSRAVEDISSRTNPYSA 180  
 121 LGSTSNTSPMRNSFAHSISPTLEHSSLFSGSYSLSLSPNPLNSRAVEDISSRTNPYSA 180  
 Db 121 LGSBKNSPMSRFAHS-SPLER---GGIHSNLCSPLNSRAVEDF-SSRMDPCSVA 173  
 QY 181 M\$PHEARFLTYHMWPLTFLSPSELARAGFYTGPGDRVACFGGKLSNWEPKDAMSEH 240  
 Db 174 M\$PHEARFLTYHMWPLTFLSPSELARAGFYTGPGDRVACFGGKLSNWEPKDAMSEH 233  
 QY 241 RRHFNPCHLENSLETLPFSISNLSMOTHAARMRTFMWUSSVPOPEQALASGYYVGR 300  
 Db 234 RRHFNPCHLENSLETLPFSISNLSMOTHAARMRTFMWUSSVPOPEQALASGYYVGR 293  
 QY 301 NDDVKCFCGCGGLRCWRSDDPWEAKWPRCEFLIRMGQEFVDETOGRYPHILEQI 360  
 Db 294 NDDVKCFCGCGGLRCWRSDDPWEAKWPRCEFLIRMGQEFVDETOGRYPHILEQI 353  
 QY 361 STSDTTGRENADPPIIHPGPGESSESDAVMNTPPVKSALLEMGPNRDLVKQTQSKILT 418

RESULT 6  
 US-10-232-286-14

RESULT 7  
US-09-974-592-14  
Sequence 14; Application US/09974592  
; Patent No. US20020120121A1  
; GENERAL INFORMATION:  
; APPLICANT: Korneluk, Robert G.  
; APPLICANT: Mackenzie, Alexander E.  
; APPLICANT: Liston, Peter  
; APPLICANT: Baird, Stephen  
; APPLICANT: Tsang, Benjamin K.  
; TITLE OF INVENTION: DETECTION AND MODIFICATION OF TAPS AND  
TITLE OF INVENTION: NAIP FOR THE DIAGNOSIS AND TREATMENT OF PROLIFERATIVE  
FILE REFERENCE: 07891/009004  
CURRENT APPLICATION NUMBER: US/09/974,592  
CURRENT FILING DATE: 2001-10-09  
PRIOR APPLICATION NUMBER: US 09/617,053  
PRIOR FILING DATE: 2000-07-14  
PRIOR APPLICATION NUMBER: US 08/800,929  
PRIOR FILING DATE: 1997-02-13  
NUMBER OF SEQ ID NOS: 17  
SOFTWARE: FastSEQ for Windows Version 4.0  
SEQ ID NO 14  
LENGTH: 612  
TYPE: PRT  
; ORGANISM: Mus musculus  
; US-09-974-592-14

Query Match 83.1%; Score 2724; DB 10; Length 612;  
Best Local Similarity 83.2%; Pred. No. 5.2e-232;  
Matches 516; Conservative 46; Mismatches 48; Indels 10; Gaps 6;

QY 1 MKHTASQRLLPGPSYQWIKSIMEDSTLSDWMTNSNKQKMKVPSCLYRMLSTMSTTPAGV 60  
Db 1 MDKTVSGRIGQGTILHQKURIMEKSTLNSNWTKESSEKPKPSPCELYRMSTYAFFGV 60  
QY 61 PVSERSLARRAGFYTYGNDVKVCFCGQMLDNWKQGSPVKEHRQFPPSCSFVQTLISAS 120  
Db 61 PVSERSLARRAGFYTYGNDVKVCFCGQMLDNWKQGSPVKEHRQFPPSCSFVQTLISAS 120  
QY 121 LGSTSNTSPMRNSPAHSLSPTEHLSSLFSGSYSSLPNPLNSRAVEDDISSRTNPYSA 180  
Db 121 LQSPSKOMSPKSRRHS-SP-LER---GGIHSNLCSSPLNSRAVEDDF-SSRMDCSYA 173  
QY 181 MSTEARFLTYHMPLTLPSPSELARAGFYIGPGRVACFAGGKLSNWEPKODMSEH 240  
Db 174 MSTEARFLTYSMWPLSPLSPELARAGFYIGPGRVACFAGGKLSNWEPKODMSEH 233  
QY 241 RRHFNCPPLENSLETFLFSISNLSMQTHAARMRTMYWPSSVPVQPEQLASAGFTYGR 300  
Db 234 RRHFNCPPLENTSEQRFSISNLSMQTHAARLRTFLXWPPSPVQPEQLASAGFTYDR 293  
QY 301 NDDVKCFCGGRLCWESGDPWHEAKWPFRCRFLJRMKGQ3FVUBIQGYRPHILEQLL 360

RESULT 8  
US-09-201-936-42  
Sequence 42; Application US/09201936  
; Publication No. US20020187946A1  
; GENERAL INFORMATION:  
; APPLICANT: Korneluk, Robert G.  
; APPLICANT: Mackenzie, Alexander E.  
; APPLICANT: Liston, Peter  
; APPLICANT: Baird, Stephen  
; TITLE OF INVENTION: MAMMALIAN TAP GENE FAMILY, PRIMERS,  
FILE REFERENCE: 07891/003003  
; CURRENT APPLICATION NUMBER: US/09/201,936  
; CURRENT FILING DATE: 1998-12-01  
; EARLIER APPLICATION NUMBER: 09/011,356  
; EARLIER FILING DATE: 1998-02-04  
; EARLIER APPLICATION NUMBER: PCT/IB96/01022  
; EARLIER FILING DATE: 1996-08-05  
; EARLIER APPLICATION NUMBER: 08/576,956  
; EARLIER FILING DATE: 1995-12-22  
; EARLIER APPLICATION NUMBER: 08/511,485  
; EARLIER FILING DATE: 1995-08-04  
; NUMBER OF SEQ ID NOS: 45  
; SOFTWARE: FastSEQ for Windows Version 3.0  
SEQ ID NO 42  
LENGTH: 591  
TYPE: PRT  
; ORGANISM: Mus musculus  
; US-09-201-936-42

Query Match 81.0%; Score 2654; DB 10; Length 591;  
Best Local Similarity 83.8%; Pred. No. 7.7e-226;  
Matches 502; Conservative 44; Mismatches 43; Indels 10; Gaps 6;

QY 22 MEDSTLSDWMTNSNKQKMKVPSCLYRMLSTMSTTPAGVPSERSLARRAGFYTGNDKV 81  
Db 1 MERSTLNSNWTKESSEKPKPSPCELYRMSTYAFFPGRVACFAGGKLSNWEPKODMSEH 60  
QY 82 KCFCGQMLDNWKQGSPVKEHRQFPPSCSFVQTLISASLQSPSKOMSPVKSRRHS-SP 141  
Db 61 KCFCGQMLDNWKQGSPVKEHRQFPPSCSFVQTLISASLQSPSKOMSPVKSRRHS-SP 119  
QY 142 TLEHSSLPGSYSSLPNPLNSRAVEDDISSRTNPYSAWMSTEBARFLTYHMPLTLPSP 201  
Db 120 -LER---GGIHSNLCSSPLNSRAVEDDF-SSRMDPCSAYMSTEEARFLTYSMWPLSP 173  
QY 202 SELARAGFYIGPGRVACFAGGKLSNWEPKODMSEHRRHFNCPPLENSLETFLFSI 261  
Db 174 AELARAGFYIGPGRVACFAGGKLSNWEPKODMSEHRRHFNCPPLENTSEQRFSI 233

Qy 262 SNLSMOTHARMTRMTPSSVVPQFOLASAGFYTGNDUDVKCFCDDGLRCWESDD 321  
 |||||:||||:||||:||||:||||:||||:||||:||||:||||:||||:||||:||||:||||:  
 234 SNLSMOTHARMTRMTPSSVVPQFOLASAGFYTGNDUDVKCFCDDGLRCWESDD 293  
 Qy 322 PWIEHAKWPRCEFLRMKGQEFVDIOTGRYRPHILEQLISTSDTGEENADP--PIHFG 379  
 |||||:||||:||||:||||:||||:||||:||||:||||:||||:||||:||||:  
 294 PWIEHAKWPRCEFLRMKGQEFVDIOTGRYRPHILEQLISTSDTGEENADP--PIHFG 353  
 Db 380 PGRESSSEDAVMNTPVKSALEMGRFDLWQTKVSKILTGENYKTNDIVSALINED 439  
 |||||:||||:||||:||||:||||:||||:||||:||||:||||:  
 Qy 440 EKREEEKEKQAEEMASDLSIRKNRMALFOQLTCVLIDNLKANTINKOEHDTIKQ 499  
 |||||:||||:||||:||||:||||:||||:||||:||||:  
 Db 413 ERREEEKERQTEEMASDLSIRKNRMALFOQLTHVLPILDNLLEASVITKQEHDIRQ 472  
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 354 PGR-SSKDQVVMSTPTVKALEMGFSRSILVRQQTATGENYRTNDIVSULNED 412  
 Db 473 TOIPLQARBLIDTILVKGNAAANIFKNCLEIDSTLYKLFDKNMKIPTBDVSGSLB 559  
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 Qy 500 TOIPLQARBLIDTILVKGNAAANIFKNCLEIDSTLYKLFDKNMKIPTBDVSGSLB 559  
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 Db 533 EQLRLQERICKVCMORESVIVFICGHLVVCQECAPSIRKCPICRGSTIKGVTFIS 591  
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 560 EQLRLQERICKVCMORESVIVFICGHLVVCQECAPSIRKCPICRGSTIKGVTFIS 618  
 |||||:||||:||||:  
 Qy 196 LTPISPSLARAFYYIGPGRVACFAGGKLNWEPKDAMSEHRRRFNPCCPLESL- 254  
 |||||:||||:||||:  
 Db 181 LTPISPSLAKGFFYIGPGRVACFAGGKLNWEPKDAMSEHRRRFNPCCPLESL- 254  
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 315 CWSGGDPWPVERHAKWPRCEFLRMKGQEFVDIOTGRYRPHILEQLISTSDTGEENADP 374  
 |||||:||||:||||:  
 Db 301 CWSGGDPWPVERHAKWPRCEFLRMKGQEFVDIOTGRYRPHILEQLISTSDTGEENADP 360  
 |||||:||||:||||:  
 Qy 375 TIRFGPGESSSTDAMVNTPVVKSALEMGRFDLWQTKVSKILTGENYKTNDIVSAL 434  
 |||||:||||:||||:  
 Db 361 LHFEPGEDHSDAIMNTPVINAEMGFSRSILVKOTVORKILATGENYRLNDVLDL 420  
 |||||:||||:  
 Qy 435 LNADDEKREREKQAREMASDLSIRKNRMALFOQLTCVLIDNLKANTINKOEH 494  
 |||||:||||:  
 Db 421 LNADDEIRERERATEEKESNDLLIRKNRMALFOQLTCVLIDNLKANTINKOEH 480  
 |||||:||||:  
 Qy 495 ITKQKTTQIPLQARBLIDTILVKGNAAANIFKNCLEIDSTLYKLFDKNMKIPTEDVS 554  
 |||||:||||:  
 Db 481 VIKQTQTSQARBLIDTILVKGNAAANIFKNCLEIDSTLYKLFDKNMKIPTEDVS 540  
 |||||:||||:  
 Qy 555 GLSLEEQLRLQERICKVCMORESVIVFICGHLVVCQECAPSIRKCPICRGSTIKGVTFIS 614  
 |||||:||||:  
 Db 541 DIAVEEQLRLQERICKVCMORESVIVFICGHLVVCQECAPSIRKCPICRGSTIKGVTFIS 600  
 |||||:||||:  
 Qy 615 TFLS 618  
 |||||:  
 Db 601 TFLS 604  
 |||||:  
 COMPUTER READABLE FORM:  
 MEDIUM TYPE: Floppy disk  
 COMPUTER: IBM PC compatible  
 OPERATING SYSTEM: PC-DOS/MS-DOS  
 SOFTWARE: PatentIn Release #1.0, Version #1.30  
 CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: US/10/232,286  
 FILING DATE: 30-Aug-2002  
 CLASSIFICATION: <Unknown>  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: US/08/569,749  
 FILING DATE: <Unknown>  
 ATTORNEY/AGENT INFORMATION:  
 NAME: Brezner, David J.  
 REGISTRATION NUMBER: 24,774  
 REFERENCE DOCKET NUMBER: A-62464/DJB  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: (415)781-1989  
 TELEFAX: (415)398-3249  
 INFORMATION FOR SEQ ID NO: 4:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 604 amino acids  
 TYPE: amino acid  
 STRANDBNESS: single  
 TOPOLOGY: linear  
 MOLECULE TYPE: protein  
 SEQUENCE DESCRIPTION: SEQ ID NO: 4:  
 ; US-10-232-286-4

RESULT 9  
 US-10-232-286-4  
 ; Sequence 4, Application US/10232286  
 ; Publication No. US2003014357A1  
 ; GENERAL INFORMATION:  
 APPLICANT: Roche, Mike  
 Goeddel, David V  
 TITLE OF INVENTION: INHIBITORS OF APOPTOSIS  
 NUMBER OF SEQMENTS: 14  
 CORRESPONDENCE ADDRESS:  
 ADDRESSEE: FLEHR, HOMBACH, TEST, ALBRITTON & HERBERT  
 STREET: 4 Embarcadero Center, Suite 3400  
 CITY: San Francisco  
 STATE: California  
 COUNTRY: USA  
 ZIP: 94111  
 COMPUTER READABLE FORM:  
 MEDIUM TYPE: Floppy disk  
 COMPUTER: IBM PC compatible  
 OPERATING SYSTEM: PC-DOS/MS-DOS  
 SOFTWARE: PatentIn Release #1.0, Version #1.30  
 CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: US/10/232,286  
 FILING DATE: 30-Aug-2002  
 CLASSIFICATION: <Unknown>  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: US/08/569,749  
 FILING DATE: <Unknown>  
 ATTORNEY/AGENT INFORMATION:  
 NAME: Brezner, David J.  
 REGISTRATION NUMBER: 24,774  
 REFERENCE DOCKET NUMBER: A-62464/DJB  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: (415)781-1989  
 TELEFAX: (415)398-3249  
 INFORMATION FOR SEQ ID NO: 4:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 604 amino acids  
 TYPE: amino acid  
 STRANDBNESS: single  
 TOPOLOGY: linear  
 MOLECULE TYPE: protein  
 SEQUENCE DESCRIPTION: SEQ ID NO: 4:  
 ; US-10-232-286-4

Query Match 71.8%; Score 2353; DB 12; Length 604;  
 Best Local Similarity 72.8%; Pred. No. 3.5e-199; Length 604;

---

Matches 440; Conservative 71; Mismatches 87; Indels 6; Gaps 5;

Qy 20 SIMDSTILSDWTNS-NKOKKMDKFSCELYRNUYSTTPAGYPUSERSLARAGFYVTGVN 78  
 |||||:||||:||||:||||:  
 Db 2 NIVENSIFLSNAMSANTFEKLKDYLSDCLSELVRYNSTYTPAGYPUSERSLARAGFYVTGVN 61  
 |||||:||||:  
 Qy 79 DKRCFCGGLMDLNWKLGDSPIQKHOLYRSCSPIONLVSA-SIGSTSNTSP--MRNSP 135  
 |||||:||||:  
 Db 294 PWIEHAKWPRCEFLRMKGQEFVDIOTGRYRPHILEQLISTSDTGEENADP--PIHFG 353  
 |||||:||||:  
 Qy 380 PGRESSSEDAVMNTPVKSALEMGRFDLWQTKVSKILTGENYKTNDIVSALINED 439  
 |||||:||||:  
 Db 354 PGR-SSKDQVVMSTPTVKALEMGFSRSILVRQQTATGENYRTNDIVSULNED 412  
 |||||:||||:  
 Qy 440 EKREEEKEKQAEEMASDLSIRKNRMALFOQLTCVLIDNLKANTINKOEHDTIKQ 499  
 |||||:||||:  
 Db 413 ERREEEKERQTEEMASDLSIRKNRMALFOQLTHVLPILDNLLEASVITKQEHDIRQ 472  
 |||||:||||:  
 Qy 500 TOIPLQARBLIDTILVKGNAAANIFKNCLEIDSTLYKLFDKNMKIPTBDVSGSLB 559  
 |||||:||||:  
 Db 473 TOIPLQARBLIDTILVKGNAAANIFKNCLEIDSTLYKLFDKNMKIPTBDVSGSLB 532  
 |||||:||||:  
 Qy 560 EQLRLQERICKVCMORESVIVFICGHLVVCQECAPSIRKCPICRGSTIKGVTFIS 618  
 |||||:||||:  
 Qy 196 LTPISPSLARAFYYIGPGRVACFAGGKLNWEPKDAMSEHRRRFNPCCPLESL- 254  
 |||||:||||:  
 Db 181 LTPISPSLAKGFFYIGPGRVACFAGGKLNWEPKDAMSEHRRRFNPCCPLESL- 254  
 |||||:||||:  
 315 CWSGGDPWPVERHAKWPRCEFLRMKGQEFVDIOTGRYRPHILEQLISTSDTGEENADP 374  
 |||||:||||:  
 Db 301 CWSGGDPWPVERHAKWPRCEFLRMKGQEFVDIOTGRYRPHILEQLISTSDTGEENADP 360  
 |||||:||||:  
 Qy 375 TIRFGPGESSSTDAMVNTPVVKSALEMGRFDLWQTKVSKILTGENYKTNDIVSAL 434  
 |||||:||||:  
 Db 361 LHFEPGEDHSDAIMNTPVINAEMGFSRSILVKOTVORKILATGENYRLNDVLDL 420  
 |||||:||||:  
 Qy 435 LNADDEKREREKQAREMASDLSIRKNRMALFOQLTCVLIDNLKANTINKOEH 494  
 |||||:||||:  
 Db 421 LNADDEIRERERATEEKESNDLLIRKNRMALFOQLTCVLIDNLKANTINKOEH 480  
 |||||:||||:  
 Qy 495 ITKQKTTQIPLQARBLIDTILVKGNAAANIFKNCLEIDSTLYKLFDKNMKIPTEDVS 554  
 |||||:||||:  
 Db 481 VIKQTQTSQARBLIDTILVKGNAAANIFKNCLEIDSTLYKLFDKNMKIPTEDVS 540  
 |||||:||||:  
 Qy 555 GLSLEEQLRLQERICKVCMORESVIVFICGHLVVCQECAPSIRKCPICRGSTIKGVTFIS 614  
 |||||:||||:  
 Db 541 DIAVEEQLRLQERICKVCMORESVIVFICGHLVVCQECAPSIRKCPICRGSTIKGVTFIS 600  
 |||||:||||:  
 Qy 615 TFLS 618  
 |||||:  
 Db 601 TFLS 604  
 |||||:  
 Query Match 71.8%; Score 2353; DB 12; Length 604;

Best Local Similarity 72.8%; Pred. No. 3.5e-199; Mismatches 440; Conservative 71; Mismatches 87; Indels 6; Gaps 5; Matches 440;保守性 71; 错配 87; 插入 6; 缺口 5; 匹配数 440;

Qy 20 SIMEDSTISLDTWNTS-NKOKMKYDFSCELYRMSTYSTRPAGPVRSERSLARAGFYVGWN 78 ; TYPE: PRT ; ORGANISM: Homo sapiens ; US-09-974-592-6

Db 2 NIVENSIPLSNTLMKSANTPELYDLSCELYRMSTYSTRPAGPVRSERSLARAGFYVGWN 61 Query Match Best Local Similarity 71.2%; Score 2332; DB 10; Length 604; Matches 435; Conservative 72; Mismatches 92; Indels 4; Gaps 4;

Qy 79 DVVKCFCCGIMLDNWKLGDSPIQHKOLYPSCSFIONTUSA-SLGSTSNTSP--MRNSF 135 ; US-09-974-592-6

Db 62 DVVKCFCCGIMLDNWKLGDSPTEKHKKLYPSCRFVQSLNSVNNEATSOPTTPSSVNTS- 120

Qy 136 AHSLSPTEHSSLFGSYSSLSPNPLNSRAVEDISSRTPYSYAMSTEARFLTYHMP 195 ; US-09-974-592-6

Db 121 THSLPGTENSGYFRGSYSNSPNVNSRANQDFSLALMESSYHCAENNARLLTFTQWP 180

Qy 196 LTFLSPTEHSSLFGSYSSLSPNPLNSRAVEDISSRTPYSYAMSTEARFLTYHMP 254 ; US-09-974-592-6

Db 181 LTFLSPTEHSSLFGSYSSLSPNPLNSRAVEDISSRTPYSYAMSTEARFLTYHMP 240

Qy 255 ETLFESIISLNLSMOTHAARMRTFMWPPSVPPVQPEQLASAGFYVGGRNDVCKFCDCGGIR 314

Db 241 DTSRYTWSNLSMOTHAARMRTFMWPPSVPPVQPEQLASAGFYVGGRNDVCKFCDCGGIR 300

Qy 315 CWESGDPWPWEHAKWPRCFLIRMKGQFVDEIQGRPHILEQLISTSDSPGDNASS 374

Db 301 CWESGDPWPWEHAKWPRCFLIRMKGQFVDEIQGRPHILEQLISTSDSPGDNASS 360

Qy 375 IHFGPGESSSEDAMMTPVVKSALEMFGNRDLVQKQTKILTGENYKTNDIVSALL 434

Db 361 IHFGPGESSSEDAMMTPVVKSALEMFGNRDLVQKQTKILTGENYKTNDIVSALL 420

Qy 435 LNAEDEKEKEKEKQAEEMASDLSLRKNGMFQQLTCVLPILDNLKANVINKOHD 494

Db 421 LNAEDEKEKEKEKQAEEMASDLSLRKNGMFQQLTCVLPILDNLKANVINKOHD 480

Qy 495 IJKQKQIPLQARELIDTILVKGNIAANTFKNCLEIDSTLYKNUFDKMKYIPTEVD 554

Db 481 VIKQKQIPLQARELIDTILVKGNIAANTFKNCLEIDSTLYKNUFDKMKYIPTEVD 540

Qy 555 GLSLBQQLRQBERTCKVCMDEKVSVVTPCGHLWYCQECAPSLRKCPICRGIIKGTVR 614

Db 541 DLVEEQQLRQBERTCKVCMDEKVSVVTPCGHLWYCQECAPSLRKCPICRGIIKGTVR 600

Qy 615 TPLS 618

Db 601 TPLS 604

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RESULT 11

US-09-974-592-6

; Sequence 6, Application US/09974592

; Patent No. US20020120121A1

; GENERAL INFORMATION:

; APPLICANT: Korneluk, Robert G

; APPLICANT: Mackenzie, Alexander E.

; APPLICANT: Liston, Peter

; APPLICANT: Baird, Stephen

; APPLICANT: Pratt, Christine

; TITLE OF INVENTION: DETECTION AND MODULATION OF IAPS AND CURRENT APPLICATION NUMBER: US/09/974, 592

; CURRENT FILING DATE: 2001-10-09

; PRIOR APPLICATION NUMBER: US 09/617, 053

; PRIOR FILING DATE: 2000-07-14

; PRIOR APPLICATION NUMBER: US 08/800, 929

; PRIOR FILING DATE: 1997-02-13

; NUMBER OF SEQ ID NOS: 17

; SOFTWARE: FastSEQ for Windows Version 4.0

; SEQ ID NO 6

LENGTH: 604

---

RESULT 12

US-09-201-936-6

; Sequence 6, Application US/09201936

; Publication No. US20020187946A1

; GENERAL INFORMATION:

; APPLICANT: Korneluk, Robert G.

; APPLICANT: Mackenzie, Alexander E.

; APPLICANT: Baird, Stephen

; APPLICANT: Liston, Peter

; TITLE OF INVENTION: MAMMALIAN IAP GENE FAMILY, PRIMERS, FILE REFERENCE: 07891/003303

; CURRENT APPLICATION NUMBER: US/09/201, 936

; CURRENT FILING DATE: 1998-12-01

; CURRENT FILING DATE: 1998-12-01

; EARLIER APPLICATION NUMBER: 09/011, 356

; EARLIER FILING DATE: 1998-02-04

; EARLIER APPLICATION NUMBER: PCT/IB96/01022

; EARLIER FILING DATE: 1996-08-05

; EARLIER APPLICATION NUMBER: 08/576, 956

; EARLIER FILING DATE: 1995-12-22

; EARLIER APPLICATION NUMBER: 08/511,485  
; EARLIER FILING DATE: 1995-08-04  
; NUMBER OF SEQ ID NOS: 45  
; SOFTWARE: FastSEQ for Windows Version 3.0  
; SEQ ID NO: 6  
; LENGTH: 604  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
; US-09-201-936-6

Query Match 71.2%; Score 2332; DB 10; Length 604;  
Best Local Similarity 72.1%; Pred. No. 2.5e-197; Mismatches 92; Indels 4; Gaps 4;  
Matches 435; Conservative 72; Mismatches 92; Indels 4; Gaps 4;

Qy 20 SIMEDSTILSDWNTS-NKOKMYDFSCYLRYMSTYSPFAGVPUVSRLARAGFYYTGVN 78  
Db 2 NIVENSIFLNSNIMKSANTFELKYDSCELYRMSTYSFFAGVPUVSRLARAGFYYTGVN 61

Qy 79 DVVKCFCGGMLDNWKGDSP1QKHQLYPSCSFIONLUSA-SLGSTSNTSPMRUSFA- 136  
Db 62 DVVKCFCGGMLDNWKGDSP1QKHQLYPSCSFIONLUSA-SLGSTSNTSPMRUSFA- 136

Qy 137 HSLSPTEHSSLFSGSYSSLSNPNSAVEDISSRTNPYSYAMSTEARPLTYHMLP 196  
Db 122 HSLLGCTENSYGPRSSYNSPNPNSRNQEFSAIMRSYPCPMNNENARLTQWPL 181

Qy 197 TPLSPSELARAGFYTGPGRDRVACFACGGKLSNWEKDAMSERRHFPNCPLFNSL-E 255  
Db 182 TELSPTDIARAGFYTGPGRDRVACFACGGKLSNWEKDAMSERLHFPCKPFIENQD 241

Qy 256 TLRFSISNLSMQTHAARNRTFMYWPSVSPVOPQELASAGFYVGRANDDVKCCDGSLRC 315  
Db 242 TSYRTVNSNLSMQTHAARNRTFMYWPSVSPVOPQELASAGFYVGRANDDVKCCDGSLRC 301

Qy 316 WESGDDPWVEHAKWFPRCEFLIRMKQSFEPVDEIQGRYPHILEQLISTSDTGEVENADPI 375  
Db 302 WESGDDPWVQHAKWFPRCEFLIRMKQSFEPVDEIQGRYPHILEQLISTSDTGEVENADPI 361

Qy 376 IHFGCGESESSDAVMNTPVWSALNGFNRLVKOTQSKILTGENYKTVDINDVSALL 435  
Db 362 IHLEPGEDHSEDATMNTPVINAVERNGFSRSLVKOTQVKILATGENYRLVNDLVL 421

Qy 436 NAEDERKEEKEQAEEMASDDLSLRKNRMALFOQLTCVPLIDNLUKANVINKOHDII 495  
Db 422 NAEDEIREERERATEKESENNDLURKNRMALFOQLTCVPLISLTTAGINQOBHDV 481

Qy 496 IKOKTOIPLOARELDTILVKGNAAINFKNCLKEIDSTIYKNEVDKOMKYIPTEDVSG 555  
Db 482 IKOKTOIPLOARELDTILVKGNAAINFKNCLKEIDSTIYKNEVDKOMKYIPTEDVSG 541

Qy 556 LSLEFOLRRLQBERTCKVCMDEKVSVFIPCGHLVQECAPSRLRKOPICRGIIKGTVRT 615  
Db 542 LPVERQRLRRIPEERTCKVCMDEKVSVFIPCGHLVVCOKDCAPSRLRKOPICRGIIKGTVRT 601

Qy 616 FLS 618  
Db 602 FLS 604

---

RESULT 13  
US-08-464-588-2  
; Sequence 2, Application US/08464588  
; Publication No. US20030073159A1  
; GENERAL INFORMATION:  
; APPLICANT: HE, ET AL.  
; TITLE OF INVENTION: Human Inhibitor of Apoptosis Gene 1  
; NUMBER OF SEQUENCES: 8  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: CARILLA, BYRNE, BAIN, GILFILLAN,  
; ADDRESS: CECCHI, STEWART & OLSTEIN  
; STREET: 6 BECKER FARM ROAD  
; CITY: ROSELAND  
; STATE: NEW JERSEY

---

RESULT 14  
US-10-323-643-2  
; Sequence 2, Application US/10323643  
; Publication No. US20030108552A1  
; GENERAL INFORMATION:  
; APPLICANT: He, et al.

COUNTRY: USA  
ZIP: 07068  
COMPUTER READABLE FORM:  
MEDIUM TYPE: 3.5 INCH DISKETTE  
COMPUTER: IBM PS/2  
OPERATING SYSTEM: MS-DOS  
SOFTWARE: WORD PERPECT 5.1  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/664,588  
FILING DATE: June 5, 1995  
CLASSIFICATION: 514  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: PCT/US95/05922  
FILING DATE: 11 MAY 1995  
ATTORNEY/AGENT INFORMATION:  
NAME: FERRARO, GREGORY D.  
REGISTRATION NUMBER: 36,134  
REFERENCE/DOCKET NUMBER: 325800-387  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 201-994-1700  
TELEFAX: 201-994-1744  
INFORMATION FOR SEQ ID NO: 2:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 438 AMINO ACIDS  
TYPE: AMINO ACID  
STRANDEDNESS:  
TOPOLOGY: LINEAR  
MOLECULE TYPE: PROTEIN  
; US-08-464-588-2

Query Match 71.0%; Score 2326; DB 8; Length 438;  
Best Local Similarity 100.0%; Pred. No. 5.1e-197; Mismatches 0; Indels 0; Gaps 0;  
Matches 438; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 181 MSTBEARFLTYHMLWPLTFLSLSLSELARAGFYTGPGRDRVACFACGGKLSNWEKDAMSEH 240  
Db 1 MSTBEARFLTYHMLWPLTFLSLSLSELARAGFYTGPGRDRVACFACGGKLSNWEKDAMSEH 60

Qy 241 RRHFPNCPFLENLSLETFLRSFSNLSMQTHAARNRTFMYWPSVSPVOPQELASAGFYVGR 300  
Db 61 RRHFPNCPFLENLSLETFLRSFSNLSMQTHAARNRTFMYWPSVSPVOPQELASAGFYVGR 180

Qy 301 NDDVKFCFCDGSLRCWESGDDPWVEHAKWFPRCEFLIRMKQSFEPVDEIQGRYPHILEQLL 360  
Db 121 NDDVKFCFCDGSLRCWESGDDPWVEHAKWFPRCEFLIRMKQSFEPVDEIQGRYPHILEQLL 240

Qy 361 STSDTGEENADPPIIHFGCGESESSDAVMNTPVWSALNGFNRLVKOTQSKILT 420  
Db 181 STSDTGEENADPPIIHFGCGESESSDAVMNTPVWSALNGFNRLVKOTQSKILT 240

Qy 421 GENYKTVDINDVSALLNAEDEKEKEKEQAEEMASDDLSLRKNRMALFOQLTCVPLID 480  
Db 241 GENYKTVDINDVSALLNAEDEKEKEKEQAEEMASDDLSLRKNRMALFOQLTCVPLID 300

Qy 481 NILKANVINKOHDIIKOKTOIPLOARELDTILVKGNAAINFKNCLKEIDSTIYKLF 540  
Db 301 NILKANVINKOHDIIKOKTOIPLOARELDTILVKGNAAINFKNCLKEIDSTIYKLF 360

Qy 541 VDKOMKYIPTEDVSGLSLBQRRLQBERTCKVCMDEKVSVFIPCGHLVVCQECAPSLR 600  
Db 361 VDKOMKYIPTEDVSGLSLBQRRLQBERTCKVCMDEKVSVFIPCGHLVVCQECAPSLR 420

Qy 601 KCPICRGIIKGTVRTPLS 618  
Db 421 KCPICRGIIKGTVRTPLS 438

; TITLE OF INVENTION: Human Inhibitor of Apoptosis Gene 1  
; FILE REFERENCE: PFI165PDI  
; CURRENT APPLICATION NUMBER: US/10/3233, 643  
; CURRENT FILING DATE: 2002-12-20  
; PRIOR APPLICATION NUMBER: 08/464, 588  
; PRIOR FILING DATE: 1995-05-11  
; NUMBER OF SEQ ID NOS: 10  
; SOFTWARE: Patentin version 3.1  
; SEQ ID NO 2  
; LENGTH: 438  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
; US-10-323-643-2

Query Match 71.0%; Score 2326; DB 15; Length 438;  
Best Local Similarity 100.0%; Pred. No. 5. 1e-197;  
Matches 438; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 181 MSTEEARFLTTHWMLPLFPLSBLARAGFYVQGPDRVACAGGKLNSWEPPDAMSEH 240  
Db 1 MSTEEARFLTTHWMLPLFPLSBLARAGFYVQGPDRVACAGGKLNSWEPPDAMSEH 60  
Qy 241 RRHFPNCPFLENSLETLRFSTISNLMSMOTHAARMRTFMYWESSVPVOPBOLASAGFYVGR 300  
Db 61 RRHFPNCPFLENSLETLRFSTISNLMSMOTHAARMRTFMYWESSVPVOPBOLASAGFYVGR 120  
Qy 301 NDDVKCFCDCGGILRCWESGDDPWVEHAKWFPRECLIRMK308FVDEIQRGYPHILLEOLL 360  
Db 121 NDDVKCFCDCGGILRCWESGDDPWVEHAKWFPRECLIRMK308FVDEIQRGYPHILLEOLL 180  
Qy 361 STSDTGENDAPPIIHFGPGESSEDADVMNTPVVKSALEMGRNRLVKOTVOSKILTT 420  
Db 181 STSDTGENDAPPIIHFGPGESSEDADVMNTPVVKSALEMGRNRLVKOTVOSKILTT 240  
Qy 421 GENYKTVDNDVSLALNAEDEKEBEEKEKOAEENASDDLSTIRKRNALFOOLTCVLPILD 480  
Db 241 GENYKTVDNDVSLALNAEDEKEBEEKEKOAEENASDDLSTIRKRNALFOOLTCVLPILD 300  
Qy 481 NLLKANVINKOBHDIIKQKTOIPLQAREBLIDITLVKGNAANIFKNCLKEIDSTLYKNLF 540  
Db 301 NLLKANVINKOBHDIIKQKTOIPLQAREBLIDITLVKGNAANIFKNCLKEIDSTLYKNLF 360  
Qy 541 VDKNMKYIPTEDVSGLSLEBOURLQBERTCKVCMDEKVSYVPIPGHLVVCQECAPSLR 600  
Db 361 VDKNMKYIPTEDVSGLSLEBOURLQBERTCKVCMDEKVSYVPIPGHLVVCQECAPSLR 420  
Qy 601 KCPICRGIGIKGVTRTFLS 618  
Db 421 KCPICRGIGIKGVTRTFLS 438

RESULT 15  
US-09-974-592-12  
Sequence 12, Application US/09974592  
; Patent No. US20020120121A1  
; GENERAL INFORMATION:  
; APPLICANT: Korneluk, Robert G  
; APPLICANT: Mackenzie, Alexander B  
; APPLICANT: Liston, Peter  
; APPLICANT: Baird, Stephen  
; APPLICANT: Tsang, Benjamin K  
; APPLICANT: Pratt, Christine  
; TITLE OF INVENTION: DETECTION AND MODULATION OF IAPS AND  
; TITLE OF INVENTION: NAIP FOR THE DIAGNOSIS AND TREATMENT OF PROLIFERATIVE  
; FILE REFERENCE: 07891/00904  
; CURRENT APPLICATION NUMBER: US/09/974, 592  
; CURRENT FILING DATE: 2001-10-09  
; PRIOR APPLICATION NUMBER: US 09/617, 053  
; PRIOR FILING DATE: 2000-07-14  
; PRIOR APPLICATION NUMBER: US 08/800, 929

PRIOR FILING DATE: 1997-02-13  
NUMBER OF SEQ ID NOS: 17  
SOFTWARE: FastSEQ for Windows Version 4.0  
SEQ ID NO 12  
LENGTH: 600  
TYPE: PRT  
ORGANISM: Mus musculus  
US-09-974-592-12

Query Match 66.3%; Score 2172; DB 10; Length 600;  
Best Local Similarity 66.7%; Pred. No. 3.6e-183;  
Matches 406; Conservative 87; Mismatches 96; Indels 20; Gaps 7;

Qy 21 IMBDSTLSDWINS-NKQKMKYDPSCELYRMSTYSTPAGYPUVERSALARAGFYVGTND 79  
Db 1 MVQDSAFLAKLUMKSADTFELKNDPSCELYRMSTYSTPAGYPUVERSALARAGFYVGTND 60  
Qy 80 KVVKCPCCGILMDNWKLGSPIQKHKQLYPSPIQNLVSA-----SIGSTSNTSP 130  
Db 61 KVVKCPCCGILMDNWKLGSPIQKHKQLYPSPIQNLVSA-----SIGSTSNTSP 120  
Qy 131 MRNSPAHSLSPTLEHSSLESQSYSSLSPNLNSRAVEDTSSSRTPYNSYAMSTERARPLT 190  
Db 121 L--SFASS----ENIGFSGSYSSFPSPDDEVNFRANQDCPALISTSPYHFMANTEKARLLT 173  
Qy 191 YHMPPLFISPSLARAGFYVIGPDRVACAGGKLNSWEPPDAMSEHRRHPNCPCFL 250  
Db 174 YETWPLSFLSPAKLAKAGFYVIGPDRVACAGDGLSWEKKDAMSEHORHPPSCPFL 233  
Qy 251 BN-SLETTRSISNLMSMOTHAARMRTFMYWESSVPVOPBOLASAGFYVGRNDDVKCFC 309  
Db 234 KDLGQSASRYTVNLMSMOTHAARIRTFSWVFSSALVHSOELASAGFYVGHSDDVKCFC 293  
Qy 310 DGGLRCWCWESGDDPWVEHAKWFPRECLIRMK308FVDEIQRGYPHILLEOLL 369  
Db 294 DGGLRCWCWESGDDPWVEHAKWFPRECLIRMK308FVDEIQRGYPHILLEOLL 353  
Qy 370 NADPPIIHFGPGESSEDADVMNTPVVKSALEMGRNRLVKOTVOSKILTTGENYKTVD 429  
Db 354 NADAIVHFGPGESSEDADVMNTPVVKSALEMGRNRLVKOTVOSKILTTGENYRTVD 412  
Qy 430 IVSALLNAEDEKEBEEKEKOABEMASDSDLIRKRNALFOOLTCVLPILDNLKAVIN 489  
Db 413 LVIGLILDADEMEBEEQMOGAEEBEESDDDLAIRKRNWVFOHLTCVTPMLCYLLSARAIT 472  
Qy 490 KOBHDIIKQKTOIPLQAREBLIDITLVKGNAANIFKNCLKEIDSTLYKNLFVKNMKYIP 549  
Db 473 EQBCNAVQKQPH-TLOASTLIDTIVLAKGNTAAATSFRNSLRIDPALYRDIFVQDIRSLP 531  
Qy 550 TEDVSGLSLEBOURLQBERTCKVCMDEKVSYVPIPGHLVVCQECAPSLRKPICRGII 609  
Db 532 TDDIAALPMEBOURLKOBERRMKVCMDEBVSIVPIPGHLVVCQECAPSLRKPICRGII 591  
Qy 610 KGTVRTFLS 618  
Db 592 KGTVRTFLS 600

Search completed: December 4, 2003, 17:19:23  
Job time : 92.9369 secs

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**OM protein - protein search, using bw model**

Run on: December 4, 2003, 14:31:50 ; Search time 2.73874 seconds  
 (without alignments)  
 741.553 Million cell updates/sec

**Title:** US-08-569-749-9  
**Perfect score:** 295  
**Sequence:** 1 PEQLASAGFYYVGRNDDVKC.....CWESEGDDPWPVEHAKWPRCE 48

**Scoring table:** BLOSUM62  
 Gapop 10.0 , Gapext 0.5

**Searched:** 328717 seqs, 42310858 residues

Total number of hits satisfying chosen parameters: 328717

Minimum DB seq length: 0

Maximum DB seq length: 200000000

**Post-processing:** Minimum Match 0%  
 Maximum Match 100%  
 Listing first 45 summaries

**Database :**

- 1: Issued Patents AA:\*
- 2: /cgn2\_6/ptodata/1/iaa/5A\_COMB.pep:\*
- 3: /cgn2\_6/ptodata/1/iaa/6A\_COMB.pep:\*
- 4: /cgn2\_6/ptodata/1/iaa/6B\_COMB.pep:\*
- 5: /cgn2\_6/ptodata/1/iaa/PECTUS\_COMB.pep:\*
- 6: /cgn2\_6/ptodata/1/iaa/backfiles1.pep:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

| SUMMARIES  |       |             |        |                     |                    |
|------------|-------|-------------|--------|---------------------|--------------------|
| Result No. | Score | Query Match | Length | DB ID               | Description        |
| 1          | 295   | 100.0       | 48     | 3 US-08-569-749-9   | Sequence 9, Appli  |
| 2          | 295   | 100.0       | 48     | 5 PCT-US95-12860-9  | Sequence 9, Appli  |
| 3          | 295   | 100.0       | 438    | 5 05922A-2          | Sequence 2, Appli  |
| 4          | 295   | 100.0       | 618    | 3 US-08-569-749-2   | Sequence 2, Appli  |
| 5          | 295   | 100.0       | 618    | 4 US-09-069-023-29  | Sequence 29, Appli |
| 6          | 295   | 100.0       | 618    | 5 PCT-US95-12860-2  | Sequence 2, Appli  |
| 7          | 283   | 95.9        | 68     | 2 US-08-511-485-27  | Sequence 27, Appli |
| 8          | 283   | 95.9        | 68     | 4 US-09-201-936-27  | Sequence 27, Appli |
| 9          | 283   | 95.9        | 618    | 2 US-08-511-485-8   | Sequence 8, Appli  |
| 10         | 283   | 95.9        | 618    | 3 US-09-212-971-8   | Sequence 8, Appli  |
| 11         | 283   | 95.9        | 618    | 3 US-08-800-929A-8  | Sequence 2, Appli  |
| 12         | 283   | 95.9        | 618    | 4 US-09-617-053A-8  | Sequence 27, Appli |
| 13         | 283   | 95.9        | 618    | 4 US-09-201-936-8   | Sequence 27, Appli |
| 14         | 282   | 95.6        | 618    | 3 US-08-511-485-10  | Sequence 8, Appli  |
| 15         | 282   | 95.6        | 48     | 5 PCT-US96-12860-10 | Sequence 8, Appli  |
| 16         | 282   | 95.6        | 68     | 2 US-08-511-485-26  | Sequence 8, Appli  |
| 17         | 282   | 95.6        | 68     | 4 US-09-201-936-26  | Sequence 26, Appli |
| 18         | 282   | 95.6        | 604    | 2 US-08-511-485-6   | Sequence 26, Appli |
| 19         | 282   | 95.6        | 604    | 3 US-09-212-971-6   | Sequence 6, Appli  |
| 20         | 282   | 95.6        | 604    | 3 US-08-800-929A-6  | Sequence 6, Appli  |
| 21         | 282   | 95.6        | 604    | 3 US-08-569-749-4   | Sequence 4, Appli  |
| 22         | 282   | 95.6        | 604    | 4 US-09-617-053A-6  | Sequence 6, Appli  |
| 23         | 282   | 95.6        | 604    | 4 US-09-201-936-6   | Sequence 6, Appli  |
| 24         | 282   | 95.6        | 604    | 5 PCT-US95-12860-4  | Sequence 4, Appli  |
| 25         | 282   | 95.6        | 612    | 3 US-09-212-971-14  | Sequence 14, Appli |
| 26         | 282   | 95.6        | 612    | 3 US-08-800-929A-14 | Sequence 14, Appli |
| 27         | 282   | 95.6        | 612    | 3 US-08-569-749-14  | Sequence 14, Appli |

**RESULT 1**  
**US-08-569-749-9**  
 Sequence 9, Application US/08569749  
 Patent No. 6187557

**GENERAL INFORMATION:**

APPLICANT: Rothe, Mike  
 ATTORNEY/AGENT INFORMATION:  
 NAME: Brezner, David J.  
 ADDRESS: FLEHR, ROTHACH, TEST, ALBRITTON & HERBERT  
 STREET: 4 Embarcadero Center, Suite 3400  
 CITY: San Francisco  
 STATE: California  
 ZIP: 94111  
 COUNTRY: USA

**COMPUTER READABLE FORM:**  
 COMPUTER: IBM PC compatible  
 OPERATING SYSTEM: PC-DOS/MS-DOS  
 SOFTWARE: PatentIn Release #1.0, Version #1.30

**CURRENT APPLICATION DATA:** US/08/569,749

APPLICATION NUMBER: US/08/569,749

FILING DATE: FILING DATE:  
 CLASSIFICATION: 514

ATTORNEY/AGENT INFORMATION:  
 NAME: Brezner, David J.  
 ADDRESS: FLEHR, ROTHACH, TEST, ALBRITTON & HERBERT  
 STREET: 4 Embarcadero Center, Suite 3400  
 CITY: San Francisco  
 STATE: California  
 ZIP: 94111  
 COUNTRY: USA

TELECOMMUNICATION INFORMATION:  
 TELEPHONE: (415) 781-1989  
 TELEFAX: (415) 398-3249

INFORMATION FOR SEQ ID NO: 9:

SEQUENCE CHARACTERISTICS:  
 LENGTH: 48 amino acids  
 TYPE: amino acid  
 STRANDEDNESS: single  
 TOPOLOGY: linear  
 MOLECULE TYPE: protein

US-08-569-749-9

Query Match 100.0%; Score 295; DB 3; Length 48;  
 Best Local Similarity 100.0%; Pred. No. 4.8e-30;  
 Matches 48; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

|    |   |
|----|---|
| QY | 1 PEQLASAGFYYVGRNDDVKC.....CWESEGDDPWPVEHAKWPRCE 48 |
| Db | 1 PEQLASAGFYYVGRNDDVKC.....CWESEGDDPWPVEHAKWPRCE 48 |

RESULT 2

PCT-US96-12860-9

; Sequence 9, Application PC/TUS9612860

; GENERAL INFORMATION:

; APPLICANT: TULARIK, INC.

; TITLE OF INVENTION: INHIBITORS OF APOPTOSIS

; NUMBER OF SEQUENCES: 14

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: FLEHR, HOHBACH, TEST, ALBRITTON &amp; HERBERT

; STREET: 4 Embarcadero Center, Suite 3400

; CITY: San Francisco

; STATE: California

; COUNTRY: USA

; ZIP: 94111

; COMPUTER READABLE FORM:

; MEDIUM TYPE: Floppy disk

; COMPUTER: IBM PC compatible

; OPERATING SYSTEM: PC-DOS/MS-DOS

; SOFTWARE: PatentIn Release #1.0, Version #1.30

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: PCT/US96/12860

; FILING DATE: 06 AUG 1996

; CLASSIFICATION:

; PRIORITY APPLICATION DATA:

; APPLICATION NUMBER: U.S. Serial No. 08/512,916 &amp; 08/569,749

; CLASSIFICATION:

; ATTORNEY/AGENT INFORMATION:

; NAME: Brezner, David J.

; REGISTRATION NUMBER: 24,774

; REFERENCE/DOCKET NUMBER: A-62464/DJB

; TELECOMMUNICATION INFORMATION:

; TELEPHONE: (415) 781-1989

; TELEFAX: (415) 398-3249

; INFORMATION FOR SEQ ID NO: 9:

; SEQUENCE CHARACTERISTICS:

; LENGTH: 48 amino acids

; TYPE: amino acid

; STRANDEDNESS: single

; MOLECULE TYPE: protein

; PCT-US95-05922A-2

; TELECOMMUNICATION INFORMATION:

; TELEPHONE: (415) 781-1989

; TELEFAX: (415) 398-3249

; INFORMATION FOR SEQ ID NO: 9:

; SEQUENCE CHARACTERISTICS:

; LENGTH: 48 amino acids

; TYPE: amino acid

; STRANDEDNESS: single

; MOLECULE TYPE: protein

; PCT-US96-12860-9

; TELECOMMUNICATION INFORMATION:

; TELEPHONE: (415) 781-1989

; TELEFAX: (415) 398-3249

; INFORMATION FOR SEQ ID NO: 9:

; SEQUENCE CHARACTERISTICS:

; LENGTH: 48 amino acids

; TYPE: amino acid

; STRANDEDNESS: single

; MOLECULE TYPE: protein

; PCT-US95-05922A-2

; TELECOMMUNICATION INFORMATION:

; TELEPHONE: (415) 781-1989

; TELEFAX: (415) 398-3249

; INFORMATION FOR SEQ ID NO: 9:

; SEQUENCE CHARACTERISTICS:

; LENGTH: 48 amino acids

; TYPE: amino acid

; STRANDEDNESS: single

; MOLECULE TYPE: protein

; PCT-US95-05922A-2

; TELECOMMUNICATION INFORMATION:

; TELEPHONE: (415) 781-1989

; TELEFAX: (415) 398-3249

; INFORMATION FOR SEQ ID NO: 9:

; SEQUENCE CHARACTERISTICS:

; LENGTH: 48 amino acids

; TYPE: amino acid

; STRANDEDNESS: single

; MOLECULE TYPE: protein

; PCT-US95-05922A-2

; FILING DATE: 11 MAY 1995

; CLASSIFICATION:

; PRIORITY APPLICATION DATA:

; APPLICATION NUMBER:

; FILING DATE:

; ATTORNEY/AGENT INFORMATION:

; NAME: FERRARO, GREGORY D.

; REGISTRATION NUMBER: 36,134

; REFERENCE/DOCKET NUMBER: 325800-292

; TELECOMMUNICATION INFORMATION:

; TELEPHONE: 201-994-1700

; TELEFAX: 201-994-1744

; INFORMATION FOR SEQ ID NO: 2:

; SEQUENCE CHARACTERISTICS:

; LENGTH: 438 AMINO ACIDS

; STRANDEDNESS:

; TOPOLogy: LINEAR

; MOLECULE TYPE: PROTEIN

; PCT-US95-05922A-2

; FILING DATE:

; CLASSIFICATION:

; PRIORITY APPLICATION DATA:

; APPLICATION NUMBER:

; FILING DATE:

; ATTORNEY/AGENT INFORMATION:

; NAME: Goeddel, David V

; REGISTRATION NUMBER: 24,774

; REFERENCE/DOCKET NUMBER: A-62464/DJB

; TELECOMMUNICATION INFORMATION:

; TELEPHONE: (415) 781-1989

; TELEFAX: (415) 398-3249

; INFORMATION FOR SEQ ID NO: 2:

; SEQUENCE CHARACTERISTICS:

; LENGTH: 154

; NUMBER OF SEQUENCES: 14

; CORRESPONDENCE ADDRESS:

; ADDRESSSEE: FLEHR, HOHBACH, TEST, ALBRITTON &amp; HERBERT

; STREET: 4 Embarcadero Center, Suite 3400

; CITY: San Francisco

; STATE: California

; COUNTRY: USA

; ZIP: 94111

; COMPUTER READABLE FORM:

; MEDIUM TYPE: Floppy disk

; COMPUTER: IBM PC compatible

; OPERATING SYSTEM: PC-DOS/MS-DOS

; SOFTWARE: PatentIn Release #1.0, Version #1.30

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/08/569,749

; FILING DATE:

; CLASSIFICATION:

; PRIORITY APPLICATION DATA:

; APPLICATION NUMBER:

; FILING DATE:

; ATTORNEY/AGENT INFORMATION:

; NAME: Brezner, David J.

; REGISTRATION NUMBER: 24,774

; REFERENCE/DOCKET NUMBER: A-62464/DJB

; TELECOMMUNICATION INFORMATION:

; TELEPHONE: (415) 781-1989

; TELEFAX: (415) 398-3249

; INFORMATION FOR SEQ ID NO: 2:

; SEQUENCE CHARACTERISTICS:

; LENGTH: 618

; NUMBER OF SEQUENCES: 14

; CORRESPONDENCE ADDRESS:

; ADDRESSSEE: FLEHR, HOHBACH, TEST, ALBRITTON &amp; HERBERT

; STREET: 4 Embarcadero Center, Suite 3400

; CITY: San Francisco

; STATE: California

; COUNTRY: USA

; ZIP: 94111

; COMPUTER READABLE FORM:

; MEDIUM TYPE: 3.5 INCH DISKETTE

; COMPUTER: IBM PS/2

; OPERATING SYSTEM: MS-DOS

; SOFTWARE: WORD PERFECT 5.1

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: PCT/US95/05922A

; Query Match  
; Best Local Similarity 100.0%; Score 295; DB 5; Length 438;

; Matches 48; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

; Query 1 PEQLASAGFYVGRNDVKCFCGGLRCWESGGDPWVEHAKWPRCE 48

; Db 107 PEQLASAGFYVGRNDVKCFCGGLRCWESGGDPWVEHAKWPRCE 154

; Query Match  
; Best Local Similarity 100.0%; Score 295; DB 5; Length 438;

; Matches 48; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

; Query 1 PEQLASAGFYVGRNDVKCFCGGLRCWESGGDPWVEHAKWPRCE 48

; Db 107 PEQLASAGFYVGRNDVKCFCGGLRCWESGGDPWVEHAKWPRCE 154

; Query Match  
; Best Local Similarity 100.0%; Score 295; DB 3; Length 618;

; Matches 48; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

; Query 1 PEQLASAGFYVGRNDVKCFCGGLRCWESGGDPWVEHAKWPRCE 48

; Db 107 PEQLASAGFYVGRNDVKCFCGGLRCWESGGDPWVEHAKWPRCE 154

Matches 48; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 Qy 1 PEQLASAGFYYVGRNDVKCFCGCGGRCWESGDDPWEHAKWFPRCE 48  
 Db 287 PEQLASAGFYYVGRNDVKCFCGCGGRCWESGDDPWEHAKWFPRCE 334

RESULT 5 US-09-069-023-29

; Sequence 29, Application US/09069023A  
 ; Patent No. 6348573  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Nunez, Gabriel  
 ; APPLICANT: Inohara, Naohiro  
 ; APPLICANT: Koseki, Takeyoshi  
 ; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR IDENTIFYING APOPTOSIS  
 ; TITLE OF INVENTION: SIGNALING PATHWAY INHIBITORS AND ACTIVATORS  
 ; FILE REFERENCE: UM-0333  
 ; CURRENT APPLICATION NUMBER: US/09/069, 023A

; NUMBER OF SEQ ID NOS: 38  
 ; SOFTWARE: PatentIn Ver. 2.0  
 ; SEQ ID NO: 29  
 ; LENGTH: 618  
 ; TYPE: PRT  
 ; ORGANISM: Homo sapiens  
 ; US-09-069-023-29

Query Match 100.0%; Score 295; DB 4; Length 618;  
 Best Local Similarity 100.0%; Pred. No. 7.6e-29;  
 Matches 48; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 Qy 1 PEQLASAGFYYVGRNDVKCFCGCGGRCWESGDDPWEHAKWFPRCE 48  
 Db 287 PEQLASAGFYYVGRNDVKCFCGCGGRCWESGDDPWEHAKWFPRCE 334

RESULT 6 PCT-US96-12860-2

; Sequence 2, Application PC/TUS9612860  
 ; GENERAL INFORMATION:  
 ; APPLICANT: TULARIK, INC.  
 ; TITLE OF INVENTION: INHIBITORS OF APOPTOSIS  
 ; NUMBER OF SEQUENCES: 14  
 ; CORRESPONDENCE ADDRESS:  
 ; ADDRESSEE: FLEHR, HOHRACH, TEST, ALBRITTON & HERBERT  
 ; STREET: 4 Embarcadero Center, Suite 3400  
 ; CITY: San Francisco  
 ; STATE: California  
 ; COUNTRY: USA  
 ; ZIP: 94111  
 ; COMPUTER READABLE FORM:  
 ; MEDIUM TYPE: Floppy disk  
 ; COMPUTER: IBM PC compatible  
 ; OPERATING SYSTEM: PC-DOS/MS-DOS  
 ; SOFTWARE: PatentIn Release #1.0, Version #1.30  
 ; CURRENT APPLICATION DATA:  
 ; FILING DATE: 04-AUG-1995  
 ; ATTORNEY/AGENT INFORMATION:  
 ; NAME: Clark, Paul T.  
 ; REGISTRATION NUMBER: 30,162  
 ; REFERENCE DOCKET NUMBER: 075540/002001  
 ; TELECOMMUNICATION INFORMATION:  
 ; TELEPHONE: 617/542-5070  
 ; TELEFAX: 617/542-8906  
 ; TELEX: 200154

; INFORMATION FOR SEQ ID NO: 27:  
 ; SEQUENCE CHARACTERISTICS:  
 ; LENGTH: 68 amino acids  
 ; TYPE: amino acid  
 ; STRANDEDNESS: not relevant  
 ; TOPOLOGY: both  
 ; MOLECULE TYPE: protein  
 ; US-08-511-485-27

Query Match 95.9%; Score 283; DB 2; Length 68;  
 Best Local Similarity 97.9%; Pred. No. 2.2e-28;  
 Matches 47; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
 Qy 1 PEQLASAGFYYVGRNDVKCFCGCGGRCWESGDDPWEHAKWFPRCE 48  
 Db 19 PEQLASAGFYYVGRNDVKCFCGCGGRCWESGDDPWEHAKWFPRCE 66

RESULT 8 US-09-201-936-27

; Sequence 27, Application US/09201936  
 ; Patent No. 6541457  
 ; GENERAL INFORMATION:

;

;

APPLICANT: Korneluk, Robert G.

APPLICANT: Mackenzie, Alexander E.

APPLICANT: Baird, Stephen

APPLICANT: Liston, Peter

TITLE OF INVENTION: MAMMALIAN IAP GENE FAMILY PRIMERS, PROBES, AND DETECTION METHODS

FILE REFERENCE: 07891/003003

CURRENT APPLICATION NUMBER: US/09/201, 936

CURRENT FILING DATE: 1998-12-01

EARLIER APPLICATION NUMBER: 09/011, 356

EARLIER FILING DATE: 1998-02-04

EARLIER APPLICATION NUMBER: PCT/IB96/01022

EARLIER FILING DATE: 1996-08-05

EARLIER APPLICATION NUMBER: 08/576, 956

EARLIER FILING DATE: 1995-12-22

EARLIER APPLICATION NUMBER: 08/511, 485

EARLIER FILING DATE: 1995-08-04

NUMBER OF SEQ ID NOS: 45

SOFTWARE: FastSEQ for Windows Version 3.0

SEQ ID NO: 27

LENGTH: 68

TYPE: PRT

ORGANISM: Homo sapiens

US-09-201-936-27

RESULT 9

Query Match 95.9%; Score 283; DB 4; length 68;

Best Local Similarity 97.9%; Pred. No. 2.2e-28; 1; Indels 0; Gaps 0;

Matches 47; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 PEQLASAGFYVGRNDVKCFCDDGLRCWESGDDPWEHAKWPRCE 48

Db 19 PEQLASAGFYVGRNDVKCFCDDGLRCWESGDDPWEHAKWPRCE 66

US-08-511-485-8

Sequence 8, Application US/08511485

Patent No. 5919912

GENERAL INFORMATION:

APPLICANT: Korneluk, Robert G.

APPLICANT: Mackenzie, Alexander E.

APPLICANT: Baird, Stephen

APPLICANT: Liston, Peter

APPLICANT: Pratt, Christine

APPLICANT: Tsang, Benjamin K

TITLE OF INVENTION: DETECTION AND MODULATION OF IAPS AND NAIP FOR THE DIAGNOSIS AND TREATMENT OF PROLIFERATIVE DISEASE

FILE REFERENCE: 07891/009002

CURRENT APPLICATION NUMBER: US/09/212, 971B

CURRENT FILING DATE: 1998-12-16

EARLIER APPLICATION NUMBER: 60/017, 354

EARLIER FILING DATE: 1996-04-26

EARLIER APPLICATION NUMBER: 60/030, 590

EARLIER FILING DATE: 1996-11-14

EARLIER APPLICATION NUMBER: 08/800, 929

EARLIER FILING DATE: 1997-02-13

NUMBER OF SEQ ID NOS: 17

SOFTWARE: FastSEQ for Windows Version 4.0

SEQ ID NO: 8

LENGTH: 618

TYPE: PRT

ORGANISM: Homo sapiens

US-09-212-971-8

RESULT 10

Query Match 95.9%; Score 283; DB 2; length 618;

Best Local Similarity 97.9%; Pred. No. 2.4e-27; 1; Indels 0; Gaps 0;

Matches 47; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 PEQLASAGFYVGRNDVKCFCDDGLRCWESGDDPWEHAKWPRCE 48

Db 287 PEQLASAGFYVGRNDVKCFCDDGLRCWESGDDPWEHAKWPRCE 334

US-09-212-971-8

Sequence 8, Application US/09212971B

Patent No. 6107041

GENERAL INFORMATION:

APPLICANT: Korneluk, Robert G.

APPLICANT: Baird, Stephen

APPLICANT: Pratt, Christine

APPLICANT: Tsang, Benjamin K

TITLE OF INVENTION: DETECTION AND MODULATION OF IAPS AND NAIP FOR THE DIAGNOSIS AND TREATMENT OF PROLIFERATIVE DISEASE

FILE REFERENCE: 07891/009002

CURRENT APPLICATION NUMBER: US/09/212, 971B

CURRENT FILING DATE: 1998-12-16

EARLIER APPLICATION NUMBER: 60/017, 354

EARLIER FILING DATE: 1996-04-26

EARLIER APPLICATION NUMBER: 60/030, 590

EARLIER FILING DATE: 1996-11-14

EARLIER APPLICATION NUMBER: 08/800, 929

EARLIER FILING DATE: 1997-02-13

NUMBER OF SEQ ID NOS: 17

SOFTWARE: FastSEQ for Windows Version 4.0

SEQ ID NO: 8

LENGTH: 618

TYPE: PRT

ORGANISM: Homo sapiens

US-09-212-971-8

RESULT 11

Query Match 95.9%; Score 283; DB 3; length 618;

Best Local Similarity 97.9%; Pred. No. 2.4e-27; 1; Indels 0; Gaps 0;

Matches 47; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 PEQLASAGFYVGRNDVKCFCDDGLRCWESGDDPWEHAKWPRCE 48

Db 287 PEQLASAGFYVGRNDVKCFCDDGLRCWESGDDPWEHAKWPRCE 334

US-08-800-929A-8

Sequence 8, Application US/08800929A

Patent No. 6133437

GENERAL INFORMATION:

APPLICANT: Korneluk, Robert G

APPLICANT: Mackenzie, Alexander E

APPLICANT: Liston, Peter

APPLICANT: Baird, Stephen

APPLICANT: Pratt, Christine

TITLE OF INVENTION: DETECTION AND MODULATION OF IAPS AND NAIP FOR THE DIAGNOSIS AND TREATMENT OF PROLIFERATIVE DISEASE

TITLE OF INVENTION: DISEASE

NUMBER OF SEQUENCES: 17

CORRESPONDENCE ADDRESS:

ADDRESSEE: Clark & Elbing LLP

STREET: 176 Federal Street

CITY: Boston

STATE: MA  
COUNTRY: USA  
ZIP: 02110  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Diskette  
OPERATING SYSTEM: DOS  
SOFTWARE: FASTSEQ for Windows Version 2.0  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/800, 929A  
FILING DATE: 13-FEB-1997  
CLASSIFICATION: 424  
PRIORITY APPLICATION DATA:  
APPLICATION NUMBER: 60/030, 590  
FILING DATE: 14-NOV-1996  
ATTORNEY/AGENT INFORMATION:  
NAME: Bieker-Brady, Kristina  
REGISTRATION NUMBER:  
REFERENCE/DOCKET NUMBER: 07891/009001  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 617-428-0200  
TELEFAX: 617-428-7045  
TELEX:  
INFORMATION FOR SEQ ID NO: 8:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 618 amino acids  
TYPE: amino acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
US-08-800-929A-8

Query Match 95.9%; Score 283; DB 3; Length 618;  
Best Local Similarity 97.9%; Pred. No. 2.4e-27;  
Matches 47; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
Qy 1 PEQLASAGFYVGRNDVKCFCDDGLRCWESGDDPWVHAKWPRCE 48  
Db 287 PEQLASAGFYVGRNDVKCFCDDGLRCWESGDDPWVHAKWPRCE 334

RESULT 12

US-09-617-053A-8  
Sequence 8, Application US/09617053A  
; Sequence 8, Application US/09617053A  
; Paten No. 6300492  
; GENERAL INFORMATION:  
; APPLICANT: Korneluk, Robert G  
; APPLICANT: Mackenzie, Alexander E  
; APPLICANT: Liston, Peter  
; APPLICANT: Baird, Stephen  
; APPLICANT: Tsang, Benjamin K  
; APPLICANT: Pratt, Christine  
; TITLE OF INVENTION: DETECTION AND MODULATION OF IAES AND  
; TITLE OF INVENTION: NAIP FOR THE DIAGNOSIS AND TREATMENT OF PROLIFERATIVE  
; TITLE OF INVENTION: DISEASE  
FILE REFERENCE: 07891/009003  
CURRENT APPLICATION NUMBER: US/09/617, 053A  
CURRENT FILING DATE: 2000-07-14  
PRIOR APPLICATION NUMBER: US 08/800, 929  
PRIOR FILING DATE: 1997-02-13  
NUMBER OF SEQ ID NOS: 17  
SOFTWARE: FASTSEQ for Windows Version 4.0  
SEQ ID NO 8  
LENGTH: 618  
TYPE: PRT  
ORGANISM: Homo sapiens  
US-09-617-053A-8

RESULT 13

US-09-201-936-8  
Sequence 8, Application US/09201936  
; Sequence 8, Application US/09201936  
; Patent No. 6541457  
; GENERAL INFORMATION:  
; APPLICANT: Korneluk, Robert G.  
; APPLICANT: Mackenzie, Alexander E.  
; APPLICANT: Liston, Peter  
; APPLICANT: Baird, Stephen  
; APPLICANT: Tsang, Benjamin K  
; TITLE OF INVENTION: MAMMALIAN IAP GENE FAMILY, PRIMERS,  
; TITLE OF INVENTION: PROBES, AND DETECTION METHODS  
; FILE REFERENCE: 07891/003003  
; CURRENT APPLICATION NUMBER: US/09/201, 936  
; CURRENT FILING DATE: 1998-12-01  
; EARLIER APPLICATION NUMBER: 09/011, 356  
; EARLIER FILING DATE: 1998-02-04  
; EARLIER APPLICATION NUMBER: PCT/IB96/01022  
; EARLIER FILING DATE: 1996-08-05  
; EARLIER APPLICATION NUMBER: 08/576, 956  
; EARLIER FILING DATE: 1995-12-22  
; EARLIER APPLICATION NUMBER: 08/511, 485  
; EARLIER FILING DATE: 1995-08-04  
; NUMBER OF SEQ ID NOS: 45  
; SOFTWARE: FastSEQ for Windows Version 3.0  
; SEQ ID NO 8  
; LENGTH: 618  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-09-201-936-8

RESULT 14

US-08-569-749-10  
Sequence 10, Application US/08569749  
; Sequence 10, Application US/08569749  
; Patent No. 6187557  
; GENERAL INFORMATION:  
; APPLICANT: Rothe, Mike  
; APPLICANT: Goeddel, David V  
; APPLICANT: Pratt, Christine  
; TITLE OF INVENTION: INHIBITORS OF APOPTOSIS  
; NUMBER OF SEQUENCES: 14  
; CORRESPONDENCE ADDRESS:  
; ADDRESSE: FLEHR, HOHACH, TEST, ALBRITTON & HERBERT  
; STREET: 4 Embarcadero Center, Suite 3400  
; CITY: San Francisco  
; STATE: California  
; COUNTRY: USA  
; ZIP: 94111  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: PatentIn Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/569, 749  
; FILING DATE:  
; CLASSIFICATION: 514  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Brezner, David J.  
; REGISTRATION NUMBER: 24,774

REFERENCE/DOCKET NUMBER: A-62464/DJB  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: (415)781-1989  
 TELEFAX: (415)398-3249

INFORMATION FOR SEQ ID NO: 10:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 48 amino acids  
 TYPE: amino acid  
 STRANDEDNESS: single  
 TOPOLOGY: linear  
 MOLECULE TYPE: protein  
 US-08-569-749-10

Query Match 95.6%; Score 282; DB 3; Length 48;  
 Best Local Similarity 93.8%; Pred. No. 2e-28;  
 Matches 45; Conservative 2; Mismatches 1; Indels 0; Gaps 0;  
 Qy 1 PEQLASAGFYVYGRNDVKCFCGGLRCWESGDDPWWI3HAKWPRCE 48  
 Db 1 PEQLASAGFYVYGNNSDVKCFCGGLRCWESGDDPWWI3HAKWPRCE 48

RESULT 15

PCT-US96-12860-10

; Sequence 10, Application PC/TUS9612860  
 ; GENERAL INFORMATION:

; APPLICANT: TULARIK, INC.  
 ; TITLE OF INVENTION: INHIBITORS OF APOPTOSIS  
 ; NUMBER OF SEQUENCES: 14  
 ; CORRESPONDENCE ADDRESS:

; ADDRESSEE: FLEHR, HOHBACH, TEST, ALBRITTON & HERBERT  
 STREET: 4 Embarcadero Center, Suite 3400  
 CITY: San Francisco  
 STATE: California  
 COUNTRY: USA  
 ZIP: 94111

; COMPUTER READABLE FORM:  
 ; MEDIUM TYPE: Floppy disk  
 ; COMPUTER: IBM PC compatible  
 ; OPERATING SYSTEM: PC-DOS/MS-DOS  
 ; SOFTWARE: PatentIn Release #1.0, Version #1.30

CURRENT APPLICATION DATA:

APPLICATION NUMBER: PCT/US96/12860

FILING DATE: 06 AUG 1996

CLASSIFICATION:

PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: U.S. Serial Nos. 08/512,946 & 08/569,749

CLASSIFICATION:

ATTORNEY/AGENT INFORMATION:

; NAME: Brener, David J.  
 ; REGISTRATION NUMBER: 24,774  
 ; REFERENCE/DOCKET NUMBER: A-62464/DJB

; TELECOMMUNICATION INFORMATION:  
 ; TELEPHONE: (415)781-1989  
 ; TELEFAX: (415)398-3249

; INFORMATION FOR SEQ ID NO: 10:  
 ; SEQUENCE CHARACTERISTICS:  
 ; LENGTH: 48 amino acids  
 ; TYPE: amino acid  
 ; STRANDEDNESS: single  
 ; TOPOLOGY: linear

; MOLECULE TYPE: protein  
 PCT-US96-12860-10

Query Match 95.6%; Score 282; DB 5; Length 48;  
 Best Local Similarity 93.8%; Pred. No. 2e-28;  
 Matches 45; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

Qy 1 PEQLASAGFYVYGRNDVKCFCGGLRCWESGDDPWWI3HAKWPRCE 48  
 Db 1 PEQLASAGFYVYGNNSDVKCFCGGLRCWESGDDPWWI3HAKWPRCE 48

Search completed: December 4, 2003, 17:09:32  
 Job time : 2.73874 SECs

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Sequence 39, Appli  
Sequence 9, Appli  
Sequence 9, Appli  
Sequence 9, Appli  
Sequence 3, Appli  
Sequence 1053, Ap  
Sequence 3, Appli  
Sequence 3, Appli  
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Sequence 9, Appli  
Sequence 9, Appli  
Sequence 3, Appli  
Sequence 1, Appli  
Sequence 1, Appli  
Sequence 2, Appli  
Sequence 1, Appli
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| Db | 61   | AAATCCAGTAAGAAGTGTAGTAAATTCTACATAAGTCTACATGATTCCTTTGG      | 120  | Db | 1141 | GGGAATCTGGAGATGATCCATGGGTAGAACATGCCAAGTGGTTCCAAGGTTGAGTTCT      | 1200 |
| Qy | 121  | TGCTAAATCTTAGTTCACTGAGAAATTCTCTGTAATGTTAGCTATCAAACAGC      | 180  | Qy | 1201 | TGATACGAAATGAAAGGCCAAGAGTTGTTGATGAGATTCAGTGATGTTAGCTACATCTC     | 1260 |
| Db | 121  | TGCTAAATCTTAGTTCACTGAGAAATTCTCTGTAATGTTAGCTATCAAACAGC      | 180  | Db | 1201 | TGATACGAAATGAAAGGCCAAGAGTTGTTGATGAGATTCAGTGATGTTAGCTACATCTC     | 1260 |
| Qy | 181  | ACTGTCACTCTCATGCACAAAAGTGCCTCCAAAGACTTTCCCAAGGTCCTCGTAC    | 240  | Qy | 1261 | TGAAACAGCTGTTGTCACCTTGAGATGCTGAGATGCTGACCCACCAATT               | 1320 |
| Db | 181  | ACTGTCACTCTCATGCACAAAAGTGCCTCCAAAGACTTTCCCAAGGTCCTCGTAC    | 240  | Db | 1261 | TGAAACAGCTGTTGTCACCTTGAGATGCTGAGATGCTGACCCACCAATT               | 1320 |
| Qy | 241  | AAACATTAAGCTATATGGAAAGATAGCAGATCTGAGATGCTGAGAAACAGCACA     | 300  | Qy | 1321 | TTCATTTGGACCTGGAGAAAGTTCTCAGAGATTCAGTGATGTTAGCTGTTG             | 1380 |
| Db | 241  | AAACATTAAGCTATATGGAAAGATAGCAGATCTGAGATGCTGAGAAACAGCACA     | 300  | Db | 1321 | TTCATTTGGACCTGGAGAAAGTTCTCAGAGATTCAGTGATGTTAGCTGTTG             | 1380 |
| Qy | 301  | AACAAAAATGAAGTATGACTTTCCCTGTACTTCAGAATGCTCACATTCAGT        | 360  | Qy | 1381 | TAAATCTGCCTTGGAAATGGCTTAATAGAGACCTGTTGTAATGAAACTG               | 1440 |
| Db | 301  | AACAAAAATGAAGTATGACTTTCCCTGTACTTCAGAATGCTCACATTCAGT        | 360  | Db | 1381 | TAAATCTGCCTTGGAAATGGCTTAATAGAGACCTGTTGTAATGAAACTG               | 1440 |
| Qy | 361  | TCCCCGGGGGGGCCCTCTCAGAAAGGCTGCTGAGAAACAGCACA               | 420  | Qy | 1441 | AAATCTGACAACAGTGGAGAGACTATAAACAGTTAATGATATGTTGTCAGCTTAA         | 1500 |
| Db | 361  | TCCCCGGGGGGGCCCTCTCAGAAAGGCTGCTGAGAAACAGCACA               | 420  | Db | 1441 | AAATCTGACAACAGTGGAGAGACTATAAACAGTTAATGATATGTTGTCAGCTTAA         | 1500 |
| Qy | 421  | GTGTGAATGACAGGTCAAATGCTCTGTGGCTATGTTGAGATACTGAAACTG        | 480  | Db | 1501 | ATCTGAAAGATGAAAGAGGAGGAGGAAACAGTCAAGCTGTTGAAACACAGTCAGTA        | 1560 |
| Db | 421  | GTGTGAATGACAGGTCAAATGCTCTGTGGCTATGTTGAGATACTGAAACTG        | 480  | Db | 1501 | ATCTGAAAGATGAAAGAGGAGGAGGAAACAGTCAAGCTGTTGAAACACAGTCAG          | 1560 |
| Qy | 481  | GAGACAGTCTTATCACAAAGCTACAGTATCCCTAGCTAGTAACTGAAACT         | 540  | Qy | 1561 | ATGATTTGTCATAATTGGAAACAGATGCTCTCTTCACAACTGACATGTTGTC            | 1620 |
| Db | 481  | GAGACAGTCTTATCACAAAGCTACAGTATCCCTAGTAACTGAAACT             | 540  | Db | 1561 | ATGATTTGTCATAATTGGAAACAGATGCTCTCTTCACAACTGACATGTTGTC            | 1620 |
| Qy | 541  | TGGTTTCAGCTAGTCTGGATCCACTCTAGAAATACGGTCCAACTGTTG           | 600  | Qy | 1621 | TCCTATCTGATAATCTTTAAGGCCATGTTAAACAGGAACTGTTAAACAGGAACTGTTA      | 1680 |
| Db | 541  | TGGTTTCAGCTAGTCTGGATCCACTCTAGAAATACGGTCCAACTGTTG           | 600  | Db | 1621 | TCCTATCTGATAATCTTTAAGGCCATGTTAAACAGGAACTGTTAAACAGGAACTGTTA      | 1680 |
| Qy | 601  | CACATTCAATTCTCCACCTGGACATAGTGTGTTCTACTCCAGCC               | 660  | Qy | 1681 | TAACAAAAACACAGATACTCTTACAGGAGAACTGTTAAAGGAACTGTTAAACAGGAACTGTTA | 1740 |
| Db | 601  | CACATTCAATTCTCCACCTGGACATAGTGTGTTCTACTCCAGCC               | 660  | Db | 1681 | TAACAAAAACACAGATACTCTTACAGGAGAACTGTTAAAGGAACTGTTAAACAGGAACTGTTA | 1740 |
| Qy | 661  | TTCTCCAAACCTCTTAATCTAGAGCAGTGTGAGAACTGCTCAGTAACC           | 720  | Qy | 1741 | AGGAATGCTGCCAACACTCTTACAGGAGAACTGTTAAAGGAACTGTTAAACAGGAACTGTTA  | 1800 |
| Db | 661  | TTCTCCAAACCTCTTAATCTAGAGCAGTGTGAGAACTGCTCAGTAACC           | 720  | Db | 1741 | AGGAATGCTGCCAACACTCTTACAGGAGAACTGTTAAAGGAACTGTTAAACAGGAACTGTTA  | 1800 |
| Qy | 721  | CCTACAGTTATGCAATGAGTACTGAGAAAGCCAGTTTACTACATGGCCAT         | 780  | Qy | 1801 | ATAAGAACTTATGTTGAGATAAGAATATGAGTATTCACAGAGATGTTGAGTC            | 1860 |
| Db | 721  | CCTACAGTTATGCAATGAGTACTGAGAAAGCCAGTTTACTACATGGCCAT         | 780  | Db | 1801 | ATAAGAACTTATGTTGAGATAAGAATATGAGTATTCACAGAGATGTTGAGTC            | 1860 |
| Qy | 781  | TAACTTTTGTCACCATCAGAAATGGCAAGAGCTGGTTTATATAGACCTGGAG       | 840  | Qy | 1861 | TGTCAGTGGAAACACATTGAGGAGCTTGCAAGAGAGAACTGTTAAAGGTTAGTC          | 1920 |
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| Qy | 841  | ATAGGGTAGCCCTGTTGCCCTGGGGAGCTGAGTACGGGACCAAGGATGATG        | 900  | Qy | 1921 | ACAAAGAGTTCTGTTTATTTCCTGTTGTCATCTGGTAGTATGCCAGGAATGTTG          | 1980 |
| Db | 841  | ATAGGGTAGCCCTGTTGCCCTGGGGAGCTGAGTACGGGACCAAGGATGATG        | 900  | Db | 1921 | ACAAAGAGTTCTGTTTATTTCCTGTTGTCATCTGGTAGTATGCCAGGAATGTTG          | 1980 |
| Qy | 901  | CTATGTCAGAACACGGGGCAATTCTCAACTTCATTTCCTTAACTGAA            | 960  | Qy | 1981 | CCCTCTCTAGAAATGCCATTGAGGGTATTAATCAAGGTACTGTTGTCAT               | 2040 |
| Db | 901  | CTATGTCAGAACACGGGGCAATTCTCAACTTCATTTCCTTAACTGAA            | 960  | Db | 1981 | CCCTCTCTAGAAATGCCATTGAGGGTATTAATCAAGGTACTGTTGTCAT               | 2040 |
| Qy | 961  | CTCTGAGGTTAGATTCAATCTGAGCATGAGACAATGAGCTGATGAGACAT         | 1020 | Qy | 2041 | TTCTCTCTAAAGAAATAGTCTATTTAACCTGTTAAAGGCTTAAATATT                | 2100 |
| Db | 961  | CTCTGAGGTTAGATTCAATCTGAGCATGAGACAATGAGCTGATGAGACAT         | 1020 | Db | 2041 | TTCTCTCTAAAGAAATAGTCTATTTAACCTGTTAAAGGCTTAAATATT                | 2100 |
| Qy | 1021 | TTATGTTACTGGCCAACTAGTGTCCAGTCAGCTGAGATGCTGAGCTGCTGTT       | 1080 | Qy | 2101 | GTGACACTTGAGCCATCTTAAGTAAAGGAAATTGAGTTTTCATTAAGTACA             | 2160 |
| Db | 1021 | TTATGTTACTGGCCAACTAGTGTCCAGTCAGCTGAGATGCTGAGCTGCTGTT       | 1080 | Db | 2101 | GTGACACTTGAGCCATCTTAAGTAAAGGAAATTGAGTTTTCATTAAGTACA             | 2160 |
| Qy | 1081 | ATATGTTGGTGCAGATGATGATGTCATGCTTGTGTTGATGGTGTGAGTT          | 1140 | Qy | 2161 | TTATCTTAATCTGTTTATTACAGGAGATTATGTTGTCAGTAAAGATGGTATATGAT        | 2280 |
| Db | 1081 | ATATGTTGGTGCAGATGATGATGTCATGCTTGTGTTGATGGTGTGAGTT          | 1140 | Db | 2161 | TTATCTTAATCTGTTTATTACAGGAGATTATGTTGTCAGTAAAGATGGTATATGAT        | 2280 |
| Qy | 1141 | GGGAATCTGGAGATGATCCATGGGTAGAACATGCCAAGTGGTTCCAAGGTTGAGTTCT | 1200 | Db | 2221 | TTATCTTAATCTGTTTATTACAGGAGATTATGTTGTCAGTAAAGATGGTATATGAT        | 2280 |

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Qy 2401 CCAGGAACCTGGAGTTCACTAGAGTATGGGCCAATNGCTTGGTTCACTT 2460  
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Qy 2461 GTGTTTAAATAAGGATTCTCTTATTCTCCCTGTTGAGAACACTCAA 2520  
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Qy 2521 TAAAGTGCCTTAAAAA 2580  
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Qy 2581 AAAA 2589  
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**RESULT 2**

PCT-US96-12860-1  
; Sequence 1, Application PC/TUS9612860  
; GENERAL INFORMATION:  
; APPLICANT: TULARIK, INC.  
; TITLE OF INVENTION: INHIBITORS OF APOPTOSIS  
; NUMBER OF SEQUENCES: 14  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: FLEIR, HOHBACH, TEST, ALBRITTON & HERBERT  
; STREET: 4 Embarcadero Center, Suite 3400  
; CITY: San Francisco  
; STATE: California  
; COUNTRY: USA  
; ZIP: 94111  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: PatentIn Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: PCT/US96/12860  
; FILING DATE: 06 AUG 1996  
; CLASSIFICATION:  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: U.S. Serial Nos. 08/512,945 & 08/569,749  
; CLASSIFICATION:  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Brezner, David J.  
; REGISTRATION NUMBER: 24, 774  
; REFERENCE/DOCKET NUMBER: A-62464/DJB  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (415) 781-1989  
; TELEFAX: (415) 398-3249  
; INFORMATION FOR SEQ ID NO: 1:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 2589 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: Single  
; TOPOLOGY: linear  
; MOLECULE TYPE: cDNA  
; PCT-US96-12860-1

Query Match 100.0%; Score 2589; DB 5; Length 2589;  
Best Local Similarity 100.0%; Pred. No. 0; Matches 2589; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Db 1 TCTAAGTGTACTTGGAAATCAGAGAGACTCATCTTACCTGAATAACTGAGAT 60  
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Qy 241 AACACATTAGGATATGGAGATAGCAGATCTGAGAATTCAGTGAAGATTTAGCTAACAGC 300  
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Db 601 CACATTCAATTCTCCACCTTGAAACATAGTAGCTGTGTTTATTCTCCAGCC 660  
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Qy 961 CTCTGAGGTTAGCATTCACTGTCAGAACCCGAGGATTCTCACTGTCATTGGAATCTCTAGAA 1020  
Db 961 CTCTGAGGTTAGCATTCACTGTCAGAACCCGAGGATTCTCACTGTCATTGGAATCTCTAGAA 1020  
Qy 1021 TTATGTTAGCTGCAATGATGATGTCATGCTTGTGTTGAGCTGCTGGTTT 1080  
Db 1021 TTATGTTAGCTGCAATGATGATGTCATGCTTGTGTTGAGCTGCTGGTTT 1080  
Qy 1081 ATTATGTTAGCTGCAATGATGATGTCATGCTTGTGTTGAGCTGCTGGTTT 1140

Db 1081 ATATCTGGGTGCGCAATGATGATGTCATAATGCTTGTGATGGGGCTTGAGGTGTT 1140  
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 Db 1141 GGGAACTCTGGAGATGATCCATGGGTGAAACATGCCAAGTGGTTCCAAGGTGAGGTCT 1200  
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 Qy 1441 AAATCTGACAACACTAAACAGTAACTGATATGTCAGCTCTAA 1500  
 Db 1441 AAATCTGACAACACTAAACAGTAACTGATATGTCAGCTCTAA 1500  
 Qy 1501 ATGCTGAGATGAAAGAGAGGAGGAGAACAGTCAACAGTCAGTCAG 1560  
 Db 1501 ATGCTGAGATGAAAGAGAGGAGGAGAACAGTCAACAGTCAGTCAG 1560  
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 Db 1681 TTAACAAAAACACAGAACCTTACAGGAGAACGACTGATGATCACATTGTTA 1740  
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 Qy 1921 ACAAGAGAGTTCTGTTATTCTCTGGTCATCTGGTAGATGCCAGGATGTG 1980  
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 Qy 1981 CCCCTCTCTAAAGAAATGCCATTCTGAGGGTATTCAGGGTACTGTCAGAT 2040  
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 Qy 2041 TTCTCTCTAAAGAAATAGCTTAACTTAACTGCAAAAGGTCTAAATT 2100  
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 Qy 2101 GTGGAACACTGAGCCATCTAAAGTAAAGGGATTAGGAGTTGAGATGTTCAATGAA 2160  
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 Qy 2161 TTCAATGTTCTAGTCTGTTGGTACATAATCTGTTGAGAAGTGTGATCATATA 2220  
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 Qy 2281 GTATGTGACCTTGGAGTAGTGTCACTGCTGTATGCACTCAGGTTACTGG 2340  
 Db 2281 GTATGTGACCTTGGAGTAGTGTCACTGCTGTATGCACTCAGGTTACTGG 2340  
 Qy 2341 ATTTGTGTCCTTCAAGAACGTTGAACTAAATTAGTGTGAAAGAATGGAA 2400  
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 Qy 2401 CCGGAACCTCTGGAGTTCACTAGAGTTGAGCTTGAACATTAATTAGTGTGAAAGAATGGAA 2460  
 Db 2401 CCGGAACCTCTGGAGTTCACTAGAGTTGAGCTTGAACATTAATTAGTGTGAAAGAATGGAA 2460  
 Qy 2461 GTGTTAAATAGGATTCTTCTTATTCCTCCCTAGTTGAGAACATTCAA 2520  
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 Qy 2521 TAAGTGCTTAAATAGGATTCTTCTTATTCCTCCCTAGTTGAGAACATTCAA 2580  
 Db 2521 TAAGTGCTTAAATAGGATTCTTCTTATTCCTCCCTAGTTGAGAACATTCAA 2580  
 Qy 2581 AAAAAGAA 2589  
 Db 2581 AAAAAGAA 2589

RESULT 3  
 US-09-205-204-1  
 ; Sequence 1, Application US/09205204  
 ; Patent No. 595772  
 ; GENERAL INFORMATION:  
 ; APPLICANT: C. Frank Bennett  
 ; APPLICANT: Elizabeth J. Ackermann  
 ; APPLICANT: Lek M. Cowpert  
 ; TITLE OF INVENTION: ANTISENSE MODULATION OF CELLULAR INHIBITOR OF APOPTOSIS-1 EXPRESSION  
 ; FILE REFERENCE: RTS-0020  
 ; CURRENT APPLICATION NUMBER: US/09/205, 204  
 ; CURRENT FILING DATE: 1998-12-03  
 ; NUMBER OF SEQ ID NOS: 47  
 ; SEQ ID NO 1  
 ; LENGTH: 3532  
 ; TYPE: DNA  
 ; ORGANISM: Homo sapiens  
 ; FEATURE:  
 ; NAME/KEY: CDS  
 ; LOCATION: (1160)..(3016)  
 ; US-09-205-204-1

Query Match 97.9%; Score 2535.8; DB 2; Length 3532;  
 Best Local Similarity 99.7%; Pred. No. 0; Mismatches 7; Indels 0; Gaps 0;

Qy 1 TCTAAGTAGTATCTGGTAACTCAGAGAGAACATCTACCTGAAATAACGGAT 60  
 Db 966 TCTAAGTAGTATCTGGTAACTCAGAGAGAACATCTACCTGAAATAACGGAT 1025  
 Qy 61 AAATCCAGTAAGAAAGTGTAGTAACTCTACATAGGTCTATCATGATTCCTTGG 120  
 Db 1026 AAATCCAGTAAGAAAGTGTAGTAACTCTACATAGGTCTATCATGATTCCTTGG 1085  
 Qy 121 TGTAAATCTAGTCTGAGAAATTCTACATGAAATTCTACATGAAATTCTACATGATTCCTTGG 1145  
 Db 1086 TGTAAATCTAGTCTGAGAAATTCTACATGAAATTCTACATGATTCCTTGG 1145  
 Qy 181 ACTGTCACCTACTGACCAAAACTGCCCTCAAGACTTCCAGGTCCTCGTAC 240  
 Db 1146 ACTGTCACCTACTGACCAAAACTGCCCTCAAGACTTCCAGGTCCTCGTAC 1205  
 Qy 241 AAACATTAAGGATAATGGAGAGATAGGAGCTTGCAAGATGGACAAACAGCAAC 300



RESULT 4

US-09-212-971-7

; Sequence 7, Application US/09212971B

; Patent No. 6107041

; GENERAL INFORMATION:

; APPLICANT: Korneluk, Robert G

; APPLICANT: MacKenzie, Alexander E

; APPLICANT: Liston, Peter

; APPLICANT: Baird, Stephen

; APPLICANT: Pratt, Christine

TITLE OF INVENTION: DETECTION AND MODULATION OF TAPS AND

TITLE OF INVENTION: NATP FOR THE DIAGNOSIS AND TREATMENT OF PROLIFERATIVE

FILE REFERENCE: 07891/00902

CURRENT APPLICATION NUMBER: US/09/212, 971B

CURRENT FILING DATE: 1998-12-16

EARLIER APPLICATION NUMBER: 60/017, 354

EARLIER FILING DATE: 1996-04-26

EARLIER APPLICATION NUMBER: 60/030, 590

EARLIER FILING DATE: 1996-11-14

EARLIER APPLICATION NUMBER: 08/800, 929

EARLIER FILING DATE: 1997-02-13

NUMBER OF SEQ ID NOS: 17

SOFTWARE: FastSEQ for Windows Version 4.0

SEQ ID NO: 7

LENGTH: 3732

TYPE: DNA

ORGANISM: Homo sapiens

us-09-212-971-7

Query Match 97.9%: Score 2535.8; DB 3; Length 3732;

Best Local Similarity 99.7%; Pred. No. 0; Mismatches 0; Indels 0; Gaps 0;

Matches 2540; Conservative 0; Mismatches 7; Indels 0; Gaps 0;

Qy 1 TCTAAGTAGTATCTCGAAATTCAAGAGATACTCATCTACCTGATAAATGAGAT 60

Db 1186 TCTAAGTAGTATCTCGAAATTCAAGAGATACTCATCTACCTGATAAATGAGAT 1245

Qy 61 AAATCCAGTAAGAACGAGTGTAGAAATTCATCAAGATCTATCATGTTCTTTGG 120

Db 1246 AAATCCAGTAAGAACGAGTGTAGAAATTCATCAAGATCTATCATGTTCTTTGG 1305

Qy 121 TGGTAAAAATCTAGTCATGTGAGAAATTCTATGAGATTTAGCTTCAAACAGC 180

Db 1306 TGGTAAAAATCTAGTCATGTGAGAAATTCTATGAGATTTAGCTTCAAACAGT 1365

Qy 181 ACTGTCACCTACTCATGCCAACCTCCAAAGACTTCTCCAGGTCCTCGTAC 240

Db 1366 ACTGTCACCTACTCATGCCAACCTCCAAAGACTTCTCCAGGTCCTCGTAC 1425

Qy 241 AAAACATTAAGAGTATAATGGAAGATGAGATCTTGAGATGAGATGAGATGAGA 300

Db 1426 AAAACATTAAGAGTATAATGGAAGATGAGATCTTGAGATGAGATGAGATGAGA 1485

Qy 301 AACAAAAATGAAGTATGACTTTCTGTGAACTCTACAGATGTTCTACATTAAC 360

Db 1486 AACAAAAATGAAGTATGACTTTCTGTGAACTCTACAGATGTTCTACATTAAC 1545

Qy 351 TCCCCGGCGGGGTGCTGTCAGAAAGGAGTCTGCTGCTGGTTTATATACG 420

Db 1546 TCCCCGGCGGGGTGCTGTCAGAAAGGAGTCTGCTGCTGGTTTATATACG 1605

Qy 421 GTGTGATGACAAGTCATAATGCTCTGTGTCGCTGATTAATGGAAACTAG 480

Db 1606 GTGTGATGACAAGTCATAATGCTCTGTGTCGCTGATTAATGGAAACTAG 1665

Qy 481 GAGACAGTCATTCAAAAGATAAACAGTATACTAGCTGATGCTGTTTACGATC 540

Db 1666 GAGACAGTCATTCAAAAGATAAACAGTATACTCTAGTGTAGCTTATTCAAGTC 1725

Qy 541 TGTTTCAGCTAGTCGGATCCACCTCTAAGATACGCTCCAAATGAGAACAGT 600

Db 1726 TGTTTCAGCTAGTCGGATCCACCTCTAAGATACGCTCCAAATGAGAACAGT 1785

Qy 601 CACATCATTATCTCCACCTGGAACTAGTAGCTGTTAGCTGCTTACTCCAGCC 660

Db 1786 CACATCATTATCTCCACCTGGAACTAGTAGCTGCTTACTCCAGCC 1845

Qy 661 TTCTCCAAACCTCTTAATCTAGACGATGAGACATCTCTCATCGAGACTAAC 720

Db 1846 TTCTCCAAACCTCTTAATCTAGACGATGAGACATCTCTCATCGAGACTAAC 1905

Qy 721 CCTACAGTTAGCAATGAGACTGAGAGAGCCAGATTCTACCTACATATGCGCAT 780

Db 1906 CCTACAGTTAGCAATGAGACTGAGAGAGCCAGATTCTACCTACATATGCGCAT 1965

Qy 781 TACTTTTGTGACCATGAGATGGCAGAGCTGGTTTATTATAGGACCTGG 840

Db 1966 TACTTTTGTGACCATGAGATGGCAGAGCTGGTTTATTATAGGACCTGG 2025

Qy 841 ATAGGTAGCCGTGCTTGCTGGTGGAGCTAGTAATGGACCAAGGATGATG 900

Db 901 CTATGTGAGAACCCGAGATTCCTGCAATTCTAGAAA 960

Db 2086 CTATGTGAGAACCCGAGATTCCTGCAATTCTAGAAA 2145

Qy 961 CTCTGAGGTTAGCATTCATGAGATGAGCTGAGCTGAGCTGAGCTGAGACAT 1020

Db 2146 CTCTGAGGTTAGCATTCATGAGATGAGCTGAGCTGAGACATGAGCTGAGACAT 2205

Qy 1021 TTATGTACTGGCCATCTAGTGTCCAGTCAGTCAGCTGAGCTGAGCTGAGCTGAGTT 1080

Db 2206 TTATGTACTGGCCATCTAGTGTCCAGTCAGTCAGCTGAGCTGAGCTGAGCTGAGTT 2265

Qy 1081 ATATGTGGGTGCAATGATGATGTCATACTGTTGTTGTTGATGGTGCTTGAGGT 1140

Db 2266 ATATGTGGGTGCAATGATGATGTCATACTGTTGTTGATGGTGCTTGAGGT 2325

Qy 1141 GGAAATCTGGAGATGATCCATGGTAGAACATGCCAGTGGTTCCAAGGCTGAGTT 1200

Db 2326 GGAAATCTGGAGATGATCCATGGTAGAACATGCCAGTGGTTCCAAGGCTGAGTT 2385

Qy 1201 TGTATGAGATGAAAGGCCAACAGTTGTTGATGAGATCAAGTAGATATCCCTCATCTC 1260

Db 2386 TGTATGAGATGAAAGGCCAACAGTTGTTGATGAGATCAAGTAGATATCCCTCATCTC 2445

Qy 1261 TGTATGAGATGAAAGGCCAACAGTTGTTGATGAGATCAAGTAGATATCCCTCATCTC 1320

Db 2446 TGTATGAGATGAAAGGCCAACAGTTGTTGATGAGATCAAGTAGATATCCCTCATCTC 2505

Qy 1321 TGTATGAGATGAAAGGCCAACAGTTGTTGATGAGATCAAGTAGATATCCCTCATCTC 1380

Db 2506 TGTATGAGATGAAAGGCCAACAGTTGTTGATGAGATCAAGTAGATATCCCTCATCTC 2555

Qy 1381 TGTATGAGATGAAAGGCCAACAGTTGTTGATGAGATCAAGTAGATATCCCTCATCTC 1440

Db 2566 TGTATGAGATGAAAGGCCAACAGTTGTTGATGAGATCAAGTAGATATCCCTCATCTC 2625

Qy 1441 AACATCTGACCACTGGAGAGACTAAACAGTATAGATATGGTGTGACTCTAA 1500

Db 2626 AACATCTGACCACTGGAGAGACTAAACAGTATAGATATGGTGTGACTCTAA 2685

Qy 1501 ATGCTGAAGATGAAAGAGGAGGAGGAGGAGAACAGCTGAGAAATGGCATCAG 1560



|    |      |  |      |    |      |  |      |
|----|------|--|------|----|------|--|------|
| Db | 1426 | AACACATTAAGACTTATGGAAAGATAGCACGATCTTGTCAGATGGACAACAGCAACA    | 1485 | Db | 2506 | TTCATTGGACCTGGGAGAAGTCTCAGAAGATGCTCATGATAACACCTGTGG      | 2565 |
| Qy | 301  | AACAAAATAGAGTATGACTTTCCCTGTAACCTCTACAGAAATGCTACATATCACTT     | 360  | Qy | 1381 | TTAACCTGCCTTGGAAATGGCTTAATAGAGACCTGGGAACAAACAGTTCAAGTA   | 1440 |
| Db | 1486 | AACAAAATAGAGTATGACTTTCCCTGTAACCTCTACAGAAATGCTACATATCACTT     | 1545 | Db | 2566 | TTAACCTGCCTTGGAAATGGCTTAATAGAGACCTGGGAACAAACAGTTCAAGTA   | 2625 |
| Qy | 361  | TCCCCGGGGGCGCTGTCAGAAAGGAGCTCTGCTGCTGGTTTATATACTG            | 420  | Qy | 1441 | AATCTGACAACTGGAGAGACTATATAACAGTTAATGATATTGTGTCAGCACTCTAA | 1500 |
| Db | 1546 | TCCCCGGGGGCGCTGTCAGAAAGGAGCTCTGCTGCTGGTTTATATACTG            | 1605 | Db | 2626 | AATCTGACAACTGGAGAGACTATATAACAGTTAATGATATTGTGTCAGCACTCTAA | 2685 |
| Qy | 421  | GTGTGAATGACAAGGTCATGCTGAGGAGCTCTGCTGCTGGCTGAGTGTGTTTATATACTG | 480  | Qy | 1501 | ATGCTGAAGATGAAAGAGAGGAGGAGGAGGAAACAGCTGAGAAATGGCATCG     | 1560 |
| Db | 1606 | GTGTGAATGACAAGGTCATGCTGAGGAGCTCTGCTGCTGGCTGAGTGTGTTTATATACTG | 1665 | Db | 2686 | ATGCTGAAGATGAAAGAGAGGAGGAGGAGGAAACAGCTGAGAAATGGCATCG     | 2745 |
| Qy | 541  | TGGTTCACTAGTCAGCTGGATCCACCTCTAGAATAGTGTCCATGAGAAACAGTTG      | 600  | Qy | 1561 | ATGATTGTCATTATCGGAGAACAGATAGTGTCTTCACTGAGTTTATAGATGATC   | 1620 |
| Db | 1726 | TGGTTCACTAGTCAGCTGGATCCACCTCTAGAATAGTGTCCATGAGAAACAGTTG      | 540  | Db | 2746 | ATGATTGTCATTATCGGAGAACAGATAGTGTCTTCACTGAGTTTATAGATGATC   | 2805 |
| Qy | 601  | CACATTCAATTCTCCCACCTGGACATAGTAGCTGTTGTCAGGGTCTACTCCAGCC      | 660  | Qy | 1621 | TTCTATCCGGATAATCTTTAAGGCCATGTAATTAAACAGGAACATGATTA       | 1680 |
| Db | 1786 | CACATTCAATTCTCCCACCTGGACATAGTAGCTGTTGTCAGGGTCTACTCCAGCC      | 1845 | Db | 2806 | TTCTATCCGGATAATCTTTAAGGCCATGTAATTAAACAGGAACATGATTA       | 2865 |
| Qy | 661  | TTTCCTAACACCTCTTAATTCTAGGACAGCTCTCATGGAGACTAAC               | 720  | Qy | 1681 | TTAACAAACACAGATACCTTACAACGAGAACATGATGTTGAGAATGTTG        | 1740 |
| Db | 1906 | CTTACAGTATGCAATGACTAGTGAAGAAGGCCAGATTCTACCGCAT               | 1905 | Db | 2866 | TTAACAAACACAGATACCTTACAACGAGAACATGATGTTGAGAATGTTG        | 2925 |
| Qy | 781  | TAACTTTTGTACCATCGAAATGCGAAAGGCTGTTTATATAATAGGACCTGG          | 840  | Qy | 1801 | ATAGAACTTATGTTGATAGATATGAGTATATTCCACAGAGAATGTTG          | 1860 |
| Db | 1966 | TAACTTTTGTACCATCGAAATGCGAAAGGCTGTTTATATAATAGGACCTGG          | 2025 | Db | 2986 | ATAGAACTTATGTTGATAGATATGAGTATCCCACAGAGAATGTTG            | 3045 |
| Qy | 841  | ATAGGGTAGCTGCTTGCCTGTTGGAGCTAGTAACTGGGAAACAAAGGATG           | 900  | Qy | 1861 | TGCACTGGAAACAACTTACAACGGAGAATGTTGCAAGAACGAACTGTC         | 1920 |
| Db | 2026 | ATAGGGTAGCTGCTTGCCTGTTGGAGCTAGTAACTGGGAAACAAAGGATG           | 2085 | Db | 3046 | TGCACTGGAAACAACTTACAACGGAGGTTGCAAGAACGAACTGTC            | 3105 |
| Qy | 901  | CTATGTCAGAACACCAGGGATTTCACACTGTCATTTGGAAATTCTCTAGAA          | 960  | Qy | 1921 | ACRAAGAGTTCTGTTGATATTCTCTGAGGAGGTGCAAGAACGAACTGTC        | 1980 |
| Db | 2086 | CTATGTCAGAACACCAGGGATTTCACACTGTCATTTGGAAATTCTCTAGAA          | 2145 | Db | 3106 | ACAAAGAAGTTCTGTTGATATTCTCTGAGGAGGTGCAAGAACGAACTGTC       | 3165 |
| Qy | 961  | CTCTGAGGTTAGCAATTCACTGTCAGCATGAGAACATGTCAGTGAATGAGACAT       | 1020 | Qy | 1981 | CCCTCTCTAGAAATGCCCATTGCGGGTATACTAGGGTACTGTCAT            | 2040 |
| Db | 2146 | CTCTGAGGTTAGCAATTCACTGTCAGCATGAGAACATGTCAGTGAATGAGACAT       | 2205 | Db | 3166 | CCCTCTCTAGAAATGCCCATTGCGGGTATACTAGGGTACTGTCAT            | 3225 |
| Qy | 1021 | TTATGACTGGCCATCTAGTCAGTTCCAGTCAGCTGAGCTGTCAGTGTGTTT          | 1080 | Qy | 2041 | TTCTCTCTAGAAATAGCTTATTTAACCTGCTATAAAAGGGTATACTGTCAT      | 2100 |
| Db | 2206 | TTATGACTGGCCATCTAGTCAGTTCCAGTCAGCTGAGCTGTCAGTGTGTTT          | 1140 | Db | 3226 | TTCTCTCTAGAAATAGCTTATTTAACCTGCTATAAAAGGGTATACTGTCAT      | 3285 |
| Qy | 1081 | ATTATGACTGGCCATCTAGTCAGTTCCAGTCAGCTGAGCTGTCAGTGTGTTT         | 2265 | Qy | 2101 | GTGAAACACTTGGCCATCTAGTAAAGTAAAGGGATTATGAGTTTCAATTAGA     | 2160 |
| Db | 2266 | ATTATGACTGGCCATCTAGTCAGTTCCAGTCAGCTGAGCTGTCAGTGTGTTT         | 2325 | Db | 3286 | GTGAAACACTTGGCCATCTAGTAAAGTAAAGGGATTATGAGTTTCAATTAGA     | 3345 |
| Qy | 1141 | GGGAATCTGGAGATGATCCAATGGTAGAATGCCAAGTCAGTGTGAGTTCCATCTC      | 1200 | Qy | 2221 | TTTAACTCTAACTCTGTTTACAGGGAGTTGGAGACTATATTAGT             | 2280 |
| Db | 2326 | GGGAATCTGGAGATGATCCAATGGTAGAATGCCAAGTCAGTGTGAGTTCCATCTC      | 2385 | Db | 3406 | TTTAACTCTAACTCTGTTTACAGGGAGTTGGAGACTATATTAGT             | 3465 |
| Qy | 1201 | TGATACGAGTCAGTCACCTGCAATGATGTCATAATGCTTGTGTTGAGTATCC         | 1260 | Qy | 2281 | GTATGTTCACTTAAAGGAGTAGTGTGTCAGTGTGTTGAGACTATATTAGT       | 3525 |
| Db | 2386 | TGATACGAGTCAGTCACCTGCAATGATGTCATAATGCTTGTGTTGAGTATCC         | 2445 | Db | 3466 | GTATGTTCACTTAAAGGAGTAGTGTGTCAGTGTGTTGAGACTATATTAGT       | 3645 |
| Qy | 1261 | TGAAACAGCTGTCACCTGCAATGATGTCATAATGCTTGTGTTGAGTATCC           | 1320 | Qy | 2341 | ATTGTTGTTCTTCAGAAAGCTTGTGTTGAGTATATTAGT                  | 3585 |
| Db | 2446 | TGAAACAGCTGTCACCTGCAATGATGTCATAATGCTTGTGTTGAGTATCC           | 2505 | Db | 3526 | ATTGTTGTTCTTCAGAAAGCTTGTGTTGAGTATATTAGT                  | 3640 |
| Qy | 1321 | TCATTTGGACCTGGAGAAAGTTCTCAGAGATGCTGTCATGATGATAACACCTGTGG     | 1380 | Db | 3586 | CCAGGAACTCTGGAGTCATCAGGTTATGGTGCCTAATGTC                 | 3645 |





|    |      |  |      |    |      |   |      |
|----|------|--|------|----|------|---|------|
| Db | 464  | GTTGGAATGACAAGGTCAAATGCTTGTGGCCTGATGCTGATACTGGAAACTAG        | 523  | QY | 1561 | ATGATTGTCATTAACTGGAGAACAGAATGGCTCTTCACAAATGACATGGTC           | 1620 |
| QY | 481  | GAGACAGTCTTATCAAAAGCATMAACAGCTATATCTAGTGTAGCTTATCGAATC       | 540  | Db | 1604 | ATGATTGTCATTAACTGGAGAACAGAATGGCTCTTCACAAATGACATGGTC           | 1663 |
| Db | 524  | GAGACAGTCTTATCAAAAGCATMAACAGCTATATCTAGTGTAGCTTATCGAATC       | 583  | QY | 1621 | TTCCTATCCGGATACTTTAAAGGCCATGTAATAAAACAGAACATGATA              | 1680 |
| QY | 541  | TGTTTCAGCTACTCTGGATCCACCTCTAAGAATAGTGTCTCATGAGAACAGTTG       | 600  | Db | 1664 | TTCTTATCCGGATACTTTAAAGGCCATGTAATAAAACAGAACATGATA              | 1723 |
| Db | 584  | TGTTTCAGCTACTCTGGATCCACCTCTAAGAATAGTGTCTCATGAGAACAGTTG       | 643  | QY | 1681 | TTAACAAAACACAGATACCTTACAAGGAGAACATGTGATACCATTTGGTA            | 1740 |
| QY | 601  | CACATCATTATCTCCCACCTTGAGAACATAGTAGCTGTCACTGGCTTACCCAGCC      | 660  | Db | 1724 | TTAACAAAACACAGATACCTTACAAGGAGAACATGTGATACCATTTGGTA            | 1783 |
| Db | 644  | CACATCATTATCTCCCACCTTGAGAACATAGTAGCTGTCACTGGCTTACCCAGCC      | 703  | QY | 1741 | AAGGAATGTCGGGCCACATCTCAAACAAACTGTCTAAAGAAATTGACTCATTTG        | 1800 |
| QY | 661  | TTCTCCAAACCTCTTAATTCTAGAGAACATAGTAGCTGTCACTGGCTTACCCAGCC     | 720  | Db | 1784 | AAGGAATGTCGGGCCACATCTCAAACAAACTGTCTAAAGAAATTGACTCATTTG        | 1843 |
| Db | 704  | TTCTCCAAACCTCTTAATTCTAGAGAACATAGTAGCTGTCACTGGCTTACCCAGCC     | 763  | QY | 1801 | ATAGAACTTGTGGATAAGAATATGAGTATTCACAGAACATCTTCAGGGTCTTACCC      | 1860 |
| QY | 721  | CCTACAGTTATGCAATGAGTACTGAGAACAGCTTACCATATGCGCAT              | 780  | Db | 1844 | ATAGAACTTGTGGATAAGAATATGAGTATTCACAGAACATCTTCAGGGTCTTACCC      | 1903 |
| Db | 764  | CCTACAGTTATGCAATGAGTACTGAGAACAGCTTACCATATGCGCAT              | 823  | QY | 1861 | TGTCACTGGAGAACATGGGAGGTTGCAAGAAGAACAGAAACTGTAAAGTGTATGG       | 1920 |
| QY | 781  | TAACTTTGTGACCATCAGAACATGGCAAGAACGCGATTCCTACCTACCATATGCGCAT   | 840  | Db | 1904 | TGTCACTGGAGAACATGGGAGGTTGCAAGAAGAACAGAAACTGTAAAGTGTATGG       | 1963 |
| Db | 824  | TAACTTTGTGACCATCAGAACATGGCAAGAGAGCTGGGATTTATATAGGACCTGGG     | 883  | QY | 1921 | ACAAAGAATTGTGTPATTATTCTCTGGTCATCTGGTAGTATTCACAGAACATGGT       | 1980 |
| QY | 841  | TAGGGTACCTGCTTGCCTGGGGAAACCTCACTGTAACCTGGAAACAAAGGTGATG      | 900  | Db | 1964 | ACAAAGAATTGTGTPATTATTCTCTGGTCATCTGGTAGTATTCACAGAACATGGT       | 2023 |
| Db | 884  | ATAGGGTACCTGCTTGCCTGGGGAAACCTCACTGTAACCTGGAAACAAAGGTGATG     | 943  | QY | 1981 | CCCTCTCTAAAGAAAATGCCATTTCAGGGTATATCAAGGTAATCTTCAGGGTCTTAC     | 2040 |
| QY | 901  | CTATGTCAGAACACGGGACATTTCCAACCTGTCATGAGCACATCCAGCTGAAATGAGAAT | 960  | Db | 2024 | CCCTCTCTAAAGAAAATGCCATTTCAGGGTATATCAAGGTAATCTTCAGGGTCTTAC     | 2083 |
| Db | 944  | CTATGTCAGAACACGGGACATTTCCAACCTGTCATGAGCACATCCAGCTGAAATGAGAAT | 1003 | QY | 2041 | TTCTCTCTAAAGAAAATGCTTATTCAGGGTATATCAAGGTAATCTTCAGGGTCTTAC     | 2100 |
| QY | 961  | CTCTGAGGGTTAGCATTCAAATCTGGCATCGAACACATCCAGCTGAAATGAGAACAT    | 1020 | Db | 2084 | TTCTCTCTAAAGAAAATAGCTTATTCAGGGTATATCAAGGTAATCTTCAGGGTCTTAC    | 2143 |
| Db | 1004 | CTCTGAGGGTTAGCATTCAAATCTGGCATCGAACACATCCAGCTGAAATGAGAACAT    | 1063 | QY | 2101 | GTGAAACACTTGACCCATCTAACTGAAAGGAAATTGAGTTATGCTCAAAAGGTCTTAAATT | 2160 |
| QY | 1021 | TTATGTACTGCCATCTAGTGTCCAGTCAGCTGAGAACCTTCAAGGCTGGTTT         | 1080 | Db | 2144 | GTGAAACACTTGACCCATCTAAAGGAAATTAGCTTATTCACCTGCTAAAGGTCTTAAATT  | 2203 |
| Db | 1054 | TTATGTACTGCCATCTAGTGTCCAGTCAGCTGAGAACCTTCAAGGCTGGTTT         | 1123 | QY | 2161 | TTCATGTTCTAGTCCTCTGGTACTAAATACTGTTCTGAAAGGAAATTGAGTTTCAATTGAA | 2220 |
| QY | 1081 | ATTATGTCGCAATGATGTCAAATGCTTGTGTTCTGGTCTGGTT                  | 1140 | Db | 2204 | TTCATGTTCTAGTCCTCTGGTACTAAAGGAAATTGAGTTTCAATTGAAAGGTCTTAAATT  | 2263 |
| Db | 1124 | ATTATGTCGCAATGATGTCAAATGCTTGTGTTCTGGTCTGGTT                  | 1183 | QY | 2221 | TTTAACTCTAACTGTTTATTAACGGGAGATTATGTTGGTAACTATGAGTATATAGSAT    | 2280 |
| QY | 1141 | GGGAATCTCGAGATGATCCATGGTAGAACATGCCAACGCTTCAAGGTGAGTTCT       | 1200 | Db | 2264 | TTTAACTCTAACTGTTTATTAACGGGAGATTATGTTGGTAACTATGAGTATATAGSAT    | 2323 |
| Db | 1184 | GGGAATCTCGAGATGATCCATGGTAGAACATGCCAACGCTTCAAGGTGAGTTCT       | 1243 | QY | 2281 | GTATGTCACCTAACGGGAGTAGCTGTCATGTTGCTGATCATTCAGGGTACTGG         | 2340 |
| QY | 1201 | TGATAGGATGAAAGGCCAGAGTTGTGATGAGATTCTAGGTATATCTCATCTC         | 1260 | Db | 2324 | GTATGTCACCTAACGGGAGTAGCTGTCATGTTGCTGATCATTCAGGGTACTGG         | 2383 |
| Db | 1244 | TGATAGGATGAAAGGCCAGAGTTGTGATGAGATTCTAGGTATATCTCATCTC         | 1303 | QY | 2341 | ATTGTTGTTCTCAGAACGTTGAAACTAAATTATAGTGTAGAAAGAACATGGAA         | 2400 |
| QY | 1261 | TGAAACAGCTGTCACCTCAGATACCCTGGAGAACATGCCACCAATT               | 1320 | Db | 2384 | ATTGTTGTTCTCAGAACGTTGAAACTAAATTATAGTGTAGAAAGAACATGGAA         | 2443 |
| Db | 1304 | TGAAACAGCTGTCACCTCAGATACCCTGGAGAACATGCCACCAATT               | 1363 | QY | 2401 | CCAGGAACCTGAGTCATCAGAACGTTGTCATGCTTCTGGCTTTCAC                | 2460 |
| QY | 1321 | TCATTTGGACCTGGAGAACAGTCTCAGAGATGCTGATGATCACCTGG              | 1380 | Db | 2444 | CCAGGAACCTGAGTCATCAGAACGTTGTCATGCTTCTGGCTTTCAC                | 2503 |
| Db | 1364 | TCATTTGGACCTGGAGAACAGTCTCAGAGATGCTGTCATGATGATCACCTGG         | 1423 | QY | 2461 | GTGTTTAATAGGATTCTCTTATTCCTTCTGGCTTTCAC                        | 2520 |
| QY | 1381 | TTAATCCTCTGGAAATGGCTTATAGAGACCTGGTAAACAAACAGTTCAAGTA         | 1440 | Db | 2504 | GTGTTTAATAGGATTCTCTTATTCCTTCTGGCTTTCAC                        | 2563 |
| Db | 1424 | TTAATCCTCTGGAAATGGCTTATAGAGACCTGGTAAACAAACAGTTCAAGTA         | 1483 | QY | 2521 | TAACGGCTTAAAMA  | 2536 |
| QY | 1441 | AAATCCTGACAACGGAGAACTTAAACAGTTATGATGATGAGCTCTAA              | 1500 | Db | 2564 | TAACGGCTTAAAMA  | 2579 |
| Db | 1484 | AAATCCTGACAACGGAGAACTTAAACAGTTATGATGAGCTCTAA                 | 1543 | QY | 1560 | ATGCTGAGGATGAAAGAGAGGAGGAGGAAACAGCTGAAGAAATGCTCAG             | 1543 |
| QY | 1501 | ATGCTGAGGATGAAAGAGAGGAGGAGGAGGAAACAGCTGAAGAAATGCTCAG         | 1560 | QY | 1561 | ATGATTGTCATTAACTGGAGAACAGAATGGCTCTTCACAAATGACATGGTC           | 1620 |
| Db | 1544 | ATGCTGAGGATGAAAGAGAGGAGGAGGAGGAAACAGCTGAAGAAATGCTCAG         | 1603 | Db | 1604 | ATGATTGTCATTAACTGGAGAACAGAATGGCTCTTCACAAATGACATGGTC           | 1663 |

RESULT 8  
; Sequence 7, Application US/09201936

PATENT NO. 6541457  
; GENERAL INFORMATION:  
; APPLICANT: Korneluk, Robert G.  
; APPLICANT: Mackenzie, Alexander E.  
; APPLICANT: Liston, Peter  
; APPLICANT: Baird, Stephen  
; TITLE OF INVENTION: MAMMALIAN IAP GENE FAMILY, PRIMERS,  
; PROBES, AND DETECTION METHODS  
; FILE REFERENCE: 07891/00303  
; CURRENT APPLICATION NUMBER: US/09/201,936  
; CURRENT FILING DATE: 1998-12-01  
; EARLIER APPLICATION NUMBER: 09/011,356  
; EARLIER FILING DATE: 1998-02-04  
; EARLIER APPLICATION NUMBER: PCT/IB96/01022  
; EARLIER FILING DATE: 1996-08-05  
; EARLIER APPLICATION NUMBER: 08/576,956  
; EARLIER FILING DATE: 1995-12-22  
; EARLIER APPLICATION NUMBER: 08/511,485  
; EARLIER FILING DATE: 1995-08-04  
; NUMBER OF SEQ ID NOS: 45  
; SOFTWARE: FastSEQ for Windows Version 3.0  
; SEQ ID NO: 7  
; LENGTH: 2580  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
; FEATURE: NAME/KEY: variation  
; LOCATION: (2412)..(2412)  
; OTHER INFORMATION: N may be any nucleotide  
; US-09-2011-936-7

Query Match 97.1%; Score 2514.8; DB 4; Length 2580;  
Best Local Similarity 99.4%; Pred. No: 0; Mismatches 14; Indels 0; Gaps 0;  
Matches 2522; Conservative 0;

|    |     |  |     |
|----|-----|--|-----|
| QY | 1   | TCTAAGTAGATCTTGAATTCAGAGAGAACTCATCCACTGTAATAACTGAGAT     | 60  |
| QY | 44  | TCTAAGTAGATCTTGTAAATTCAAGAGAGATACCTCCTACCTGTAATAACTGAGAT | 103 |
| QY | 61  | AATTCAGTAAGAAGAGGTAGTAATTCATACATAGACTCATGATTTCTGG        | 120 |
| QY | 104 | AATTCAGTAAGAAGGTAGTAATTCATAGACTCATGATTTCTGG              | 163 |
| QY | 121 | TGGTAAATCTTACTCATGAGAAATTCACTGATGTTAGCTATCAAACGC         | 180 |
| QY | 164 | TGGTGAATCTTACTCATGAGAAATTCACTGATGTTAGCTATCAAACAGT        | 223 |
| Db | 181 | ACTGTCACCTACTCATGACAAACTGCCTCCAAAGACTTTCCAGGTCCCTGATC    | 240 |
| Db | 224 | ACTGTCACCTACTCATGACAAACTGCCTCCAAAGACTTTCCAGGTCCCTGATC    | 283 |
| QY | 241 | AAACATTAAGATGATAATGGAGATAGCAGCTTGICAGATGGACAAACGCCACA    | 300 |
| Db | 284 | AAACATTAAGATGATAATGGAGATAGCAGCTTGICAGATGGACAAACGCCACA    | 343 |
| QY | 301 | AACAAATGAGATGACTTTCTGTGACTCTACAGATGCTCACATTCACCT         | 360 |
| Db | 344 | AACAAATGAGATGACTTTCTGTGACTCTACAGATGCTCACATTCACCT         | 403 |
| QY | 361 | TCCCCCGGGGGTGTCTCAGAAGGGCTGCTGTTTATATACG                 | 420 |
| QY | 404 | TCCCCGGGGGTGTCTCAGAAGGGCTGCTGTTTATATACG                  | 463 |
| QY | 421 | GTGAGATGACAGGTCAGTGTGCTGAGACTGAACTAG                     | 480 |
| Db | 464 | GTGAGATGACAGGTCAGTGTGCTGAGACTGAACTAG                     | 523 |
| QY | 481 | GAGACAGTCTTCAAGATAACAGCTATATCTAGCTGACTTTTACGATC          | 540 |
| Db | 524 | GAGACAGTCTTCAAGATAACAGCTATATCTAGCTGACTTTTACGATC          | 583 |
| QY | 541 | TGGTTCACTCTGATCCACCTCTAGAATAGCTCTCCAACTGAGAACAGTTG       | 600 |

Db 584 TGGTTCACTGCTGGATCCACCTCTAAGAATACGTCCTCAATGAGAACAGTTG 643  
Qy 601 CTCATTCAATTCTCCACCTTGAACTAGTAGCTGTCTGCTGCTTACTCCAGCC 650  
Db 644 CAGTCATTATCTCCACCTTGAACTAGTAGCTGTCTGCTTACTCCAGCC 703  
Qy 661 TTTCACAAACCTCTTAATTCTAGAGCAGTGAGACATCTCTCATGAGACTAAC 720  
Db 704 CCTACAGTTATGAGACTCTGAAAGGCTGAGACATCTCTCATGAGACTAAC 763  
Qy 721 CCTACAGTTATGAGACTCTGAAAGGCTGAGACATCTCTCATGAGACTAAC 780  
Db 764 CCTACAGTTATGAGACTCTGAAAGGCTGAGACATCTCTCATGAGACTAAC 823  
Qy 781 TAACCTTTGTCACCATCAGAATTGCAAGAGCTGGTTTATATAGAGCTGGAG 840  
Db 824 TAACCTTTGTCACCATCAGAATTGCAAGAGCTGGTTTATATAGAGCTGGAG 883  
Qy 841 ATAGGGTAGCCTGCTGCTGAGCTGAGCTAGTAACTGGAAACCAAGGGATG 900  
Db 884 ATAGGGTAGCCTGCTGCTGAGCTGAGCTAATGGGAAACCAAGGGATG 943  
Qy 901 CTATGTCAGAACACGGAGCATTTCCAACCTGTCATTTGAAATTCTCTAGAA 960  
Db 944 CTATGTCAGAACACGGAGCATTTCCAACCTGTCATTTGAAATTCTCTAGAA 1003  
Qy 961 CTCCTGAGGTTAGCATTCAATCTGAGCATGTCAAATGCTGATGGAGACAT 1020  
Db 1004 CTCCTGAGGTTAGCATTCAATCTGAGCATGTCAGACACATGAGCTGAGACAT 1063  
Qy 1021 TTATGACTGGCCATCTAGTGTCCGGTCAAGCTGAGCTGAGCTGAGCTG 1080  
Db 1064 TTATGACTGGCCATCTAGTGTCCGGTCAAGCTGAGCTGAGCTG 1123  
Qy 1081 ATATGTTGGTCGCAATGATGATGTCATGTCATGTCATGTCATGTCATGTC 1140  
Db 1124 ATATGTTGGTCGCAATGATGATGTCATGTCATGTCATGTCATGTCATGTC 1183  
Qy 1141 GGAATCTGGAGATGATCCATGGTAGACATGCCAGTGGTTCAAGGTGAGTT 1200  
Db 1184 GGAATCTGGAGATGATCCATGGTAGACATGCCAGTGGTTCAAGGTGAGTT 1243  
Qy 1201 TGATCGATGAAGGCCAGAGTTGTGATGAGATCAGGTAGATCTTCATCTC 1260  
Db 1244 TGATCGATGAAGGCCAGAGTTGTGATGAGATCAGGTAGATCTTCATCTC 1303  
Qy 1261 TGAAACAGCTGTTGCAACTTCAGATACCCTGGAGAGAAATGTCACCCACATA 1320  
Db 1304 TTGAAACAGCTGTTGCAACTTCAGATACCCTGGAGAGAAATGTCACCCACATA 1363  
Qy 1321 TCATTTGGACCTGGAGAAAGTCTCAGAAGATGTCATGATGATAACCTGTT 1380  
Db 1364 TTCAATTGGACCTGGAGAAAGTCTCAGAAGATGTCATGATGATAACCTGTT 1423  
Qy 1381 TAAATCTGGCTGGAAATGGCTTATAGAGACCTGGTGAACAAACAGTCAGTA 1440  
Db 1424 TAAATCTGGCTGGAAATGGCTTATAGAGACCTGGTGAACAAACAGTCAGTA 1483  
Qy 1441 AAATCTGAACTGGAGAGACTAAACAGTAACTGATGTCAGCACTCTAA 1500  
Db 1484 AAATCTGAACTGGAGAGACTAAACAGTAACTGATGTCAGCACTCTAA 1543  
Qy 1501 ATGATGTCATTAATTCTGGAAACAGAATGGCTCTCTTCACAACTGAGAAATGGCATG 1560  
Db 1544 ATGCTGAACTGGAGAGACTAAACAGTAACTGATGTCAGCACTCTAA 1603  
Qy 1561 ATGATGTCATTAATTCTGGAAACAGAATGGCTCTCTTCACAACTGAGAAATGGCATG 1620  
Db 1604 ATGATGTCATTAATTCTGGAAACAGAATGGCTCTCTTCACAACTGAGAAATGGCATG 1663  
Qy 1621 TTCTATCCCTGAAATCTTTAAGGCAATGTTAAACAGGAAACATGATTA 1680  
Db 1664 TTCTATCCCTGAAATCTTTAAGGCAATGTTAAACAGGAAACATGATTA 1723

CITY: ROSELAND  
 STATE: NEW JERSEY  
 COUNTRY: USA  
 ZIP: 07068

COMPUTER READABLE FORM:  
 MEDIUM TYPE: 3.5 INCH DISKETTE  
 COMPUTER: IBM PS/2  
 OPERATING SYSTEM: MS-DOS  
 SOFTWARE: WORD PERFECT 5.1

CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: PCT/US95/05922A  
 FILING DATE: 11 MAY 1995  
 CLASSIFICATION:  
 PRIORITY APPLICATION DATA:  
 APPLICATION NUMBER:  
 FILING DATE:  
 ATTORNEY/AGENT INFORMATION:  
 NAME: FERRARO, GREGORY D.  
 REGISTRATION NUMBER: 36,134  
 REFERENCE/DOCKET NUMBER: 322800-292

TELECOMMUNICATION INFORMATION:  
 TELEPHONE: 201-994-1700  
 TELEFAX: 201-994-1744

INFORMATION FOR SEQ ID NO: 1:

SEQUENCE CHARACTERISTICS:  
 LENGTH: 1435 BASE PAIRS  
 TYPE: NUCLEAR ACID  
 STRANDEDNESS: SINGLE  
 TOPOLOGY: LINEAR  
 MOLECULE TYPE: cDNA

PCT-US95-05922A-1

Query Match 55.2%; Score 1430.2; DB 5; Length 1435;  
 Best Local Similarity 99.8%; Pred. No. 8.9e-297; Mismatches 0; Indels 0; Gaps 0;

Matchers 1432; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Db 2204 TTCACTCTTAATCTGTGTTGGTACTAACTGTGTTGAGATGTCATA 2200  
 Db 2221 TTAATCTTAATCTGTGTTGGTACTAACTGTGTTGAGATGTCATA 2280  
 Db 2264 TTAACTCTTAATCTGTGTTGGTACTAACTGTGTTGAGATGTCATA 2323  
 Db 2281 GTATGTGTTACCTAAGGGAGTAGTGTCACCTGTGTTGAGATGTCATA 2340  
 Db 2324 GTATGTGTTACCTAAGGGAGTAGTGTCACCTGTGTTGAGATGTCATA 2383  
 Qy 2341 ATTTGTTGTTCTTCAGAAAGCTTGAACTAACTAATTAATAGTGAGAAAGCTGGAA 2400  
 Db 2384 ATTTGTTGTTCTTCAGAAAGCTTGAACTAACTAATTAATAGTGAGAAAGCTGGAA 2443  
 Qy 2401 CCAGGAACCTCTGGAGTCATCAGAGTTGGTCCGGAATGCTGTTTCACT 2460  
 Db 2444 CCAGGAACCTCTGGAGTCATCAGAGTTGGTCCGGAATGCTGTTTCACT 2503  
 Qy 2461 GTGTTTAAATAAGGATTCTCTTATTCTCCCCTAGTTGTGAGAACATCTCA 2520  
 Db 2504 GTGTTTAAATAAGGATTCTCTTATTCTCCCCTAGTTGTGAGAACATCTCA 2563  
 Qy 2521 TAAGTGCTTAAAAA 2536  
 Db 2564 TAAGTGCTTAAAAA 2579

RESULT 9

PCT-US95-05922A-1  
 ; Sequence 1, Application PC/TUS9505922A  
 ; GENERAL INFORMATION:  
 ; APPLICANT: HE, ET AL.  
 ; TITLE OF INVENTION: Human Inhibitor of Apoptosis Gene 1  
 ; NUMBER OF SEQUENCES: 8  
 ; CORRESPONDENCE ADDRESS:  
 ; ADDRESSEE: CARELLA, BYRNE, BAIN, GILFILLAN,  
 ; ADDRESSEE: CECCHI, STEWART & OLSTEIN  
 ; STREET: 6 BECKER FARM ROAD

STATE: California  
 COUNTRY: USA  
 ZIP: 94111

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk  
 COMPUTER: IBM PC compatible  
 OPERATING SYSTEM: PC-DOS/MS-DOS  
 SOFTWARE: PatentIn Release #1.0, Version #1.30

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/569,749  
 FILING DATE:  
 CLASSIFICATION: 514  
 ATTORNEY/AGENT INFORMATION:  
 NAME: Brozner, David J.  
 REGISTRATION NUMBER: 24,774  
 REFERENCE/DOCKET NUMBER: A-62464/DJB  
 TELEPHONE: (415) 781-1989  
 TELEFAX: (415) 398-3249

INFORMATION FOR SEQ ID NO: 13:

SEQUENCE CHARACTERISTICS:  
 LENGTH: 2862 base pairs  
 TYPE: nucleic acid

STRANDEDNESS: Single  
 TOPOLOGY: Linear  
 MOLECULE TYPE: cDNA

US-08-569-749-13

Query Match 52.0%; Score 1345.2; DB 3; Length 2862;  
 Best Local Similarity 76.6%; Pred. No. 1.6e-278; Mismatches 0; Indels 79; Gaps 13;  
 Matches 1844; Conservative 0; Mismatches 483; Indels 79; Gaps 13;

Qy 140 TGTGAGAAATTCTGTGATGTTAGCTACATCAACAGACTGTCACCTACTCATGCA 199  
 Db 420 TGTTGAGAAACTCTCATCTGGAAAGTTAGGGCAGAATACTT-ACTACTCATGGA 477

Qy 200 CAAAACTGCCTCCAAAGACTTTCAGGCTCTCGTACATCAAACATTAAGAGTAA 259  
 Db 478 CAAACTGTCTCCAGAGACTCGGCCAAGGTACCTTACACCAAACCTTAAACGTTAA 537

Qy 260 GGAAGATAGCACGACTGTGAGTGGTCAAGTGTAACTGTTGACAA 319  
 Db 538 GGAAGAGAGCACACTTGTCAATTGGACAAGAGAGGAAATGAAGTGA 597

Qy 320 CTTCCTCTGTGAACTCTACAGAATGTCTCAATTCACCTTCCGGGGGGCTGT 379  
 Db 598 CTTCCTGTGAACTCTACCGAAATGCTACATTCAGTTTCCAGGGAGTTCTGT 657

Qy 380 CTCAGAAAGGAGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 439  
 Db 658 CTCAAGAGGAGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 717

Qy 440 ATCTCTCTGTCTGGCCTGTGATGCTGCTGCTGCTGCTGCTGCTGCTGCTG 499  
 Db 718 GTCTCTGTCTGGCCTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 777

Qy 500 GCATAAACAGCTATACTCTAGCTTATTCAGAATCTGCTGCTGCTGCTGCTG 559  
 Db 778 GCACAGACAGTCTATCCAGCTGCACTGCTGCTGCTGCTGCTGCTGCTG 837

Qy 560 ATCCACCTCTAAGAAATAGCTCTCAATGAGAACAGTTTGACATTCATATCTCCAC 619  
 Db 838 GTCCTCATCTAAGAAATAGCTCTGCTGCTGCTGCTGCTGCTGCTGCTG 897

Qy 620 CTTCGAACATAGTAGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 679  
 Db 898 ACCAG-----GTGGCATTCATCCACCTGCTGCTGCTGCTGCTGCTGCTG 939

Qy 680 TTCTAGAGAGCTGAGAGACATCTCTCATGAGGACTAACCCCTACAGTTGCTGAG 739  
 Db 940 TTCTAGAGAGCTGAGAGACTC---TCATCAAGGATGGATCCCTGAGCTATGAG 996

Qy 740 TACTGAAGGAGATTCTRACTACCATATGTCGCTTACCATGTCGCTGCTGCTG 799

RESULT 10  
 US-08-569-749-13  
 Sequence 13, Application US/08569749  
 Patient No. 6187557  
 GENERAL INFORMATION:  
 APPLICANT: Rothe, Mike  
 APPLICANT: Goeddel, David V  
 TITLE OF INVENTION: INHIBITORS OF APOPTOSIS  
 NUMBER OF SEQUENCES: 14  
 CORRESPONDENCE ADDRESS:  
 ADDRESSEE: FLUR, HOHBACH, TEST, ALBRITTON & HIRBERT  
 STREET: 4 Embarcadero Center, Suite 3400  
 CITY: San Francisco

|    |      |  |      |
|----|------|--|------|
| Db | 997  | TACAGAAGGAGCCAGATTCTTACTTCAGTATGTGGCCTTAAGTTCTGCACAGC                    | 1056 |
| QY | 800  | AGAAATTGGCAAGAGGCTCGTTTATTATAAGGACTCTGGATAGGGTAGCCTGCC                   | 859  |
| Db | 1057 | AGAGCCTGGCAGAGCTGCCTCTTACATAGGCTGGAGACAGGGCTGGAGACAGGGTGCTGG 1116        |      |
| QY | 860  | CTGTCGGTGGAAAGCTCAAGTAACTGGGACCAAGGATGATGCTATGTAGAGACACCCGAG             | 919  |
| Db | 1117 | CTGTCGGTGGAAACTGACCAACTGGGACCAAGGATGATGCTATGTAGAGACACCCGAG               | 1176 |
| QY | 980  | AAATCTCAGCATGGAGACATGGCAGCTGGAGACATCTGGAAATACTTCAGAACACAGAGTTAGTATC 1236 |      |
| Db | 1237 | AAATCTCAGTATGGAGACACACTCTGGAAATACTTCAGAACACAGAGTTAGTATC 1296             |      |
| QY | 1040 | TGTTCCAGTCAGCTGGCAGCTGGAGCTGGAGCTGGCTGCTGGAGCTGGCACCTAG                  | 1099 |
| Db | 1297 | TGTTCCCTGTCAGGCCGGAGCTGGAGCTGGCTGCTGGAGCTGGCACATGA                       | 1356 |
| QY | 1100 | TGATGTCMAATGCTTGTGATGGCTGGCTGAGGTTATTAGTGGTGGCTGCATCTAG                  | 1159 |
| Db | 1357 | TGATGTCAGTCTTAACTCCATAAAAGGTTCAATTAGTGGTGGCTGCATCTAG                     | 1416 |
| QY | 1160 | ATGGGTAGACATGCCAAGTGGTCTCAAGGGTGTGAGTCTGTGAAAGATGGTATGAGATGACCTGA        | 1219 |
| Db | 1417 | CTGGATAGAACACGCCAAATGGTTCCAGGGTGTGAGTCTGTGAAAGATGGATGACCTGA              | 1476 |
| QY | 1220 | AGAGTTGTTGATGAGATCAAGGAGATATCTCTCTTGTGAAAGCTGTGTCAC                      | 1279 |
| Db | 1477 | GGAGITTTGTTGATGAGATCAAGCTAGTAACTCTCAGGAGCTGTGAAAGATGGATGAGGATGACCTGA     | 1536 |
| QY | 1280 | TCAGATACACTGGAGAGAAATGGTGAACC-----ACAAATTCTTGTGAAAGTGGAGCTGGACC          | 1333 |
| Db | 1537 | TCAGACACCCCAGGAGAGAAATGTCAGCTACAGAGACAGTGGTGCATTTCGACC                   | 1596 |
| QY | 1334 | TGGAGAAGTCTTCAGAGATGCTGTGATGATAACACCTGGTTAAATCTGCCT                      | 1393 |
| Db | 1597 | TGGAGAAG-----TCGAGAGATGCTGTGATGAGACAGCTGGTGCATTTCGACC                    | 1653 |
| QY | 1394 | GGAAATGGCTTAATAGAGACTCTGGTAACACAACAGTCAGAAATCTGACAC                      | 1453 |
| Db | 1654 | GGAAATGGGCTTCAGTAGGAGCCCTGGTGGAGACAGACAGGTTCAACGAGATCTGCCAC              | 1713 |
| QY | 1454 | TGGTGAAGACTACAGACAGCTTCAGGACCGTCATGATGTCAGTCTTGTGAAAGATGA                | 1513 |
| Db | 1714 | TGGTGAAGACTACAGACAGCTTCAGGACCGTCATGATGTCAGTCTTGTGAAAGATGA                | 1773 |
| QY | 1514 | AAAAAGAGAGGAGGAGGAGGAAACAGTCAAGCTGAAGAAATGGCATAGATGATTCTCATT             | 1573 |
| Db | 1774 | GAGAGAGAGAGGAGGAGGAAAGCAGACTGAGAGATGGCATAGGTGACTTACT                     | 1833 |
| QY | 1574 | AATTCGGAGAACAGAGATGGCTCTCTTCAACAACTGACATGTGCTCTTCTATCTCGGA               | 1633 |
| Db | 1834 | GATTCGGAGAACATGGCTCTTCAACAACTGACATGTGCTCTTCTATCTCGGA                     | 1893 |
| QY | 1634 | TAATCTTTAAGGCCAACTGTAATTAAACAGGAGATGATATTAACACAAAC                       | 1693 |
| Db | 1894 | TAATCTCTGTGAGGCCAGTGTAAATTACAAACAGGAGATGATATTAACACAAAC                   | 1953 |
| QY | 1694 | ACAGATACCTTACAGGAGGAGAACTGCTCACTTGTATAGAACTTATT                          | 1753 |
| Db | 1954 | ACAGATACCTTACAGGAGGAGAACTGCTCACTTGTATAGAACTTATT                          | 2013 |
| QY | 1754 | GGCCAACTCTTACAGGAGGAGAACTGCTCACTTGTATAGAACTTATT                          | 1813 |
| Db | 2014 | AGCCAACTCTTACAGGAGGAGAACTGCTCACTTGTATAGAACTTATT                          | 2073 |
| QY | 1814 | TGTGATAGAATGAGTATTCACAGAAGTGTGTTCACTGGCTACTCGAGA                         | 1873 |

RESULT 11  
PCT-US96-12860-13  
; Sequence 13, Application PC/TUS9612860  
; GENERAL INFORMATION:  
; APPLICANT: TULARIK, INC.  
; TITLE OF INVENTION: INHIBITORS OF APOPTOSIS  
; NUMBER OF SEQUENCES: 14  
; CORRESPONDENCE ADDRESS:  
; ADDRESSE: FLEHR, HOHBACH, TEST, ALBRITTON & HERBERT  
; STREET: 4 Embarcadero Center, Suite 3400  
; CITY: San Francisco  
; STATE: California  
; COUNTRY: USA  
; ZIP: 94111  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: PatentIn Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: PCT/US96/12860  
; FILING DATE: 06 AUG 1996

PRIOR APPLICATION: |||||  
 APPLICATION NUMBER: U.S. Serial No. 08/512,946 & 08/569,749  
 CLASSIFICATION: |||||  
 ATTORNEY/AGENT INFORMATION:  
 NAME: Brezner, David J.  
 REGISTRATION NUMBER: 24, 774  
 REFERENCE/DOCKET NUMBER: A-62464/DJB  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: (415) 781-1989  
 TELEFAX: (415) 398-3249  
 INFORMATION FOR SEQ ID NO: 13:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 2862 base pairs  
 TYPE: nucleic acid  
 STRANDEDNESS: single  
 TOPOLOGY: linear  
 MOLECULE TYPE: cDNA  
 PCT-US96-128660-13

Query Match 52.0%; Score 1345.2; DB 5; Length 2862;  
 Best local Similarity 76.6%; Pred. No. 1.6e-278;  
 Matches 1844; Conservative 0; Mismatches 483; Indels 79; Gaps 13;  
 QY 140 TGTGAGAAATTCACTGGAATGTTAGCTATCACAACGACTGCACTCATGCA 199  
 Db 420 TGGTGAAGAAACTTCATCTGGAAAGTTAGCGGTCAAGAAACTATT--ACTACTATGGA 477  
 QY 200 CAAACTGCCTCCAAAGACTTTCCAGGCCCTCGTATCAAACATTAAGAGATAAT 259  
 Db 478 CAAAACTGTCTCCAGAAGACTCGGCCAACGTTACACAAACATTAAACCPATAAT 537  
 QY 260 GGAAGATAGCACGATCTGTCAAGATGGACAACACGCAAAACAAAAATGAAGTGA 319  
 Db 538 GGAGAGAGAGCACAACTCTTGCAAAATTGGACAACAGGAGGAAATGAAGTTGA 597  
 QY 320 CTTTCTCTGTGAACTCTACAGAACTCTACATTCACACTTCCCGGGGGGTCCTGT 379  
 Db 598 CTTCCTCGTGTGAACCTCTACCGAACTCTACATTCAGCTTCCAGGGGAACTCTGT 657  
 QY 380 CTCAGAAAGGAGCTCTGCTCGTGTGCGTGGTTTATTAATACTGGTGAATGACAAGGTCAA 439  
 Db 658 CTCAGAGAGGGAGCTCGCTCGTGTGCGTGGTTTATTAATACTGGTGAATGACAAGGTCAA 717  
 QY 440 ATGCTTCTGTGCGCCGTGATGCGATAACTGGAAACTAGGAGAACAGTCTTCAAA 499  
 Db 718 CGCTCTCTGTGCGCCGTGATGCGTGAACTCGAAACAGGGCACAGTCTGAGTCAA 777  
 QY 500 GCATAAACAGCTATCTAGCTGTGCTTATTCTAGAACTGGTTTGACATTCATTCTCCAC 619  
 Db 838 GTCTCCATCTAAGATATGTCCTCTGTGAAAGAGATGTTGACATTCCTGGA 897  
 QY 620 CTGGAACATAGTAGCTGTCACTGGCTTACTCGAAACCCAAACCTCTAA 679  
 Db 898 AGCAG-----GTGGCATTCACTCGAACTGGCTCTGACCTCTTCCAC 939  
 QY 680 TTCTAGAGCAGCTGAAAGACATCTTCATCGGAGCTAACCCCTACAGTTATCGATGAG 739  
 Db 940 TTCTAGAGCAGCTGAAAGACATCTTCATCGGAGCTAACCCCTACAGTTATCGATGAG 995  
 QY 740 TACTGAAGAAGCCAGATCTTACCTACCATATGGGCCATTAACTTTGCTGACCAT 799  
 Db 997 TACAGAAGGCCAGATTCTTACAGTATGGCCCTTAACTGAGCTGAGCTGAC 1056  
 QY 800 AGATATGGCAAGAGCTGTTTATATAGGAGCTGGAGATGGTAGCTCTGTC 859  
 Db 1057 AGAGCTGCCAGCTGCTCTTACATAGGCTGGAGACAGGGTGGCTGTTG 1116  
 QY 860 CTGGTGGGAAGCTCGTAACCTGGAAACAAAGGATGATGCTATGTCAGAAACCGGAG 919

|    |      |  |      |
|----|------|--|------|
| Db | 1117 | <br>CTCTGGGAAACTGAGAACAGTGGAAACAAAGGATGATGCTATGTCAGACCGCAG         | 1176 |
| QY | 920  | <br>GCATTTCACACTGTCATTGGAATCTCTAGAACCTGAGGTTTACCTTC                | 979  |
| Db | 1177 | <br>ACATTTCACACTGTCATTGGAATCTCTAGAACCTGAGGTTTACCTTC                | 1236 |
| QY | 980  | <br>AACTCTGAGATGAGACACATGAGCTGGAAACATTTAGTGTACTGGCACATAG           | 1039 |
| Db | 1237 | <br>AACTCTAAGTATGAGACACACTCTGCTCGATGAGGACATTCTGTA                  | 1296 |
| Db | 1040 | <br>TGTCCAGTGCCTGAGCGCTGCAAGTGTCTGGTTTATATGTTGGTCCAATGA            | 1099 |
| QY | 1297 | <br>TGTCCCTGTCAGCCGAGGACTCTGCTGCAAGTGTCTGGATTCTTACGTGGATGCCATGA    | 1356 |
| Db | 1357 | <br>TGTGTCAGCTTGTGATGGTGTGAGATGTCAGTGGAACTGGAGATGACCC              | 1416 |
| QY | 1160 | <br>ATGGTAGACAGCTGCAAGTGTCTTCAAGGTTGAGTCTCTGATACGATGAGGCA          | 1219 |
| Db | 1417 | <br>CTGGATAGACAGGCCAAATGTTCAAGGTTGAGTCTGATACGGATGGAGGTC            | 1476 |
| QY | 1220 | <br>AGGGTTGTTGAGGATTCAGGTAGATTCCTCATCTCTGTGAAACAGCTGTTGTCAC        | 1279 |
| Db | 1477 | <br>GGAGTTGTTGAGGATTCAGGTAGATTCCTCATCTCTGTGAAACAGCTGTTGTCAC        | 1536 |
| QY | 1280 | <br>TTCAGATACCTGGAGAGAAATGTCAGCC-----ACCAATTACATTGAGGAC            | 1333 |
| Db | 1537 | <br>TTCAGACACCCAGGGAGAAATGTCAGACCTACAGAGACAGTGGGAGATTGCC           | 1596 |
| QY | 1334 | <br>TGGAGAAAGTTCTCAGAGAGTGTGTCATGATGATACTACCTGTTAACCTGCTT          | 1393 |
| Db | 1597 | <br>TGGAGAAAG---TTCGGAAGATGTCGTGTCATGATGAGCAGCGCCTGTTAAGCAGCCT     | 1653 |
| QY | 1394 | <br>GGAATGGGTTTAATAGAGACCTGGTGAACAAACAGITCAAGTAATCTGACAAC          | 1453 |
| Db | 1654 | <br>GGAATGGGCTCTAGTAGGACCTGGTGAACAGACGGTTGAGGGAGATCTGCCAC          | 1713 |
| QY | 1454 | <br>TGGAGAGAACTATAAACAGCTTAATGATATGTTGTCAGACTCTTAATGTCGAAGATGA     | 1513 |
| Db | 1714 | <br>TGGAGAGAACTACAGGACCGCTTAATGATATGTCAGTACTTGTGAGATGTCAGTGAAGATGA | 1773 |
| QY | 1514 | <br>AAAAGAGAGGGAGAGAGAAACACAGGAAATGGCATGATGATGTTGTCAGTGAAGATGA     | 1573 |
| Db | 1774 | <br>GAGGAGAGAGGGAGAGAGAAAGACAGAGAGATGGAGAGATGGCATGAGTTACT          | 1833 |
| QY | 1574 | <br>AATTCGGAAGACAGAACTGGCTCTTGACACATGACATGTCGTCCTCTATCTGGA         | 1633 |
| Db | 1834 | <br>GATTCGGAAGATAGAATGGCCCTCTTCACAGTGTGACACATGTCAGTGAAGATGA        | 1893 |
| QY | 1634 | <br>TAATCTTAAAGGCCAACTGTTAACTAACAGGACATGATATTAACAAAC               | 1693 |
| Db | 1894 | <br>TAATCTTCTGTGGCCAGTGTGTTAATTACAAACAGGACATGATATTAACAAAC          | 1953 |
| QY | 1694 | <br>ACAGATACCTTACAAGCGAGGAACATGAGTGTGATACATTGTTGTTAAGGAATGCTGC     | 1753 |
| Db | 1954 | <br>ACAGATACCTTACAAGCGAGGAACATGAGTGTGATACATTGTTGTTAAGGAATGCTGC     | 2013 |
| QY | 1754 | <br>GGCCACACATCTCAAAACTCTGCTAAAGAAGATGACTCTACATGTTGAGAACTATT       | 1813 |
| Db | 2014 | <br>ACGCAACATCTCAAAACTCTGCTGAGGAATTGACTCTACAGTTATGAAACTATT         | 2073 |
| QY | 1874 | <br>TGTGATAAGGATATGAGATATTCACAGAGAGCTTGTGAGGTTGAGGAAAGGTC          | 1933 |
| Db | 2134 | <br>GCAGTGTGCGAGATTACAGAGAGACAGTGTGAGGAGAGGTTTC                    | 2193 |
| QY | 1934 | <br>TGTGTTATTCTCTGGTCATCTGGTAGTATGCGGAATGTCAGCCCTCTCTAAG           | 1993 |

```

Db 2194 TATGTGTTCACTTCGGTGTGTCATCTAGTAGTCCTGCCAGTCGCCCCCTCTCTAAG 2253
Qy 1994 AAATGCCTATTGCGAGGGTATAATCAAGGTAATCTGTCATTCCTCTCTAAAG 2053
Db 2254 GAAGTGCCCATCTCGCAGGGGACATCAAGGGACTCTGCACATTCCTCTAAG- 2311
Qy 2054 AAAATAGTCTATTTAACCTGCATAAAAGGTTTAAATATTGTAACACTG 2113
Db 2312 -----GTGAAGAATGGCTGAAAGTATGAACTG 2347
Qy 2114 AGCCATCTAACTAAAAGGAATTATGAGTTTCAATTAGTAACATCATG 2173
Db 2348 AGCTGTCAGAACAGAAGTAACTGAACTACTGA--TTTCAGCTCTCAGGACATCTACT 2404
Qy 2174 CTCTTTGGTACTAATACTCTGTTGAAAGATGGTNTCTGAAAGACTCTG 2233
Db 2405 CTCTTCAGATTACTCTGCTTATGAAAGCTGAGCTAGCTGTTGAGACATCTACT 2464
Qy 2234 TGTATTACAAAGGAAGATTTGTTGGTAACTATTTAGTGTGTTAATCTTAACT 2293
Db 2465 TG-----TGGAGGGAGGTCTATG-CTGTGAGCTACAGGACTGTTGAGCT 2518
Qy 2294 AGCGACTAGTGTACTGCTGTTGATGCACTTCAGGAACTTACTGGATTGTTGCTT 2353
Db 2519 CAGGAGTGGAACTCTGCTGTTGAGCTGTC-----CTTCAGGAACTCTG 2571
Qy 2354 TCGAAAGCTTGTAACTAATATAGTGTAGAAAGACTGGAAACCCAGGACTCTGG 2413
Db 2572 TGTGAAAGCTTGTGATTGAGCTGAGTGGAGCTGAAACCTGAAACCCAGGACTCTGG 2631
Qy 2414 AGTCATCAGAGTTATGGCCGAATTGCTTGGCTCTGCTGTTAAATA 2473
Db 2632 TACTCA--GTAAGCTTGTGATTGAGCTGAGTGGCTGTTCTG--GAAATA 2686
Qy 2474 AGGATTTCTCTTATTCCTCCCTAGTTGAGAAATCTCAATAAGCTTAA 2533
Db 2687 AGGATTTCTCTACTGGTAATTTCTGTTGAGAAATATTAAGCTTCT 2746
Qy 2534 AAAAA 2539
Db 2747 TTTAA 2752

RESULT 12
US-09-212-971-13
; Sequence 13, Application US/09212971B
; Patent No. 6107041
; GENERAL INFORMATION:
; APPLICANT: Korneluk, Robert G
; APPLICANT: Mackenzie, Alexander E
; APPLICANT: Liston, Peter
; APPLICANT: Baird, Stephen
; APPLICANT: Tsang, Benjamin K
; APPLICANT: Pratt, Christine
; TITLE OF INVENTION: DETECTION AND MODULATION OF IAI'S AND PROLIFERATIVE
; TITLE OF INVENTION: NAP FOR THE DIAGNOSIS AND TREATMENT OF PROLIFERATIVE
; TITLE OF INVENTION: DISEASE
; FILE REFERENCE: 07891/009002
; CURRENT APPLICATION NUMBER: US/09/212,971B
; CURRENT FILING DATE: 1998-12-16
; EARLIER APPLICATION NUMBER: 60/017,354
; EARLIER FILING DATE: 1996-04-26
; EARLIER APPLICATION NUMBER: 60/030,590
; EARLIER FILING DATE: 1996-11-14
; EARLIER APPLICATION NUMBER: 09/800,929
; EARLIER FILING DATE: 1997-02-13
; NUMBER OF SEQ ID NOS: 17
; SOFTWARE: PastSEQ for Windows Version 4.0
; SEQ ID NO: 13
; LENGTH: 3151
; TYPE: DNA
; ORGANISM: Mus musculus
; US-09-212-971-13

Query Match 51.9%; Score 1343.6; DB 3; Length 3151;
Best Local Similarity 76.2%; Pred. No. 3.5e-278; Matches 1852; Conservative 0; Mismatches 499; Indels 79; Gaps 13;
Matches 1852; Conservative 0; Mismatches 499; Indels 79; Gaps 13;
Qy 116 TTGTTGTTAAATCTTACTGTTGAGAAATTCTGTTGAGCTTCTCCAGGTCTC 235
Db 702 TGTGTTGAGACTGTTGCTCAAGTGGTGAAGAACTTCATCTGGAATTTAGGGTCAG 761
Qy 176 ACAGCACTGTCACCTACTGTCACAAATGCTCCAAAGACTTTCCAGGTCTC 235
Db 762 AAATACTATT--ACTACTCATGGCAAACACTGTCCTCCAGAGACTCGGCCAGGTACCT 819
Qy 236 GTATCAAACTAAGACTATAATGAAAGTAGACGATCTGAGATGAGCTG 295
Db 820 ACACCAAAACTAAACGTTAATGGAGAGAGACAATCTGCAATTCAGAACAGA 879
Qy 296 CAACAAACAAAAATGAAGTATGACTTTCTGTAACCTCTACAGAATGTCACATATC 355
Db 880 GAGCGAGAAGAAAATGAAGTTGACTTTCTGTTGAACTCTACCGAATGTCACATTC 939
Qy 356 AACTTCCCAGGGGGCTGCTCTCTCAGAAAGGACTCTGG 415
Db 1000 TACAGGTGTAATGACAAGTCAGTGTCTCTGTTGGCTGATGTTGAA 1059
Qy 940 AGCTTCTCCAGGGAGTCTGTCAGAGAGGACTCTGCTGTCGTCGTCGTC 999
Qy 416 TACTGGTGAATGACAAGTCATACTGCTCTGTTGGCTGATGTCATACTGAA 475
Db 1050 ACAAGGGAGAGTCTGTCGTTGAAAGCACAGACAGTCTATCCAGTCGAGCTTGTACA 1119
Qy 476 ACTAGGAGAGCTTCTTCAAAGCATAAAGCTATACTAGTCTGACTTTATTCA 535
Db 1120 GAATCTGGTTAGCTGTTGGTACCTCCACCTCTTAAGAATAGCTCCAATGAGAAACAG 595
Qy 536 GAATCTGGTTAGCTGTTGGTACCTCCACCTCTTAAGAATAGCTCCAATGAGAAACAG 595
Db 1180 ATTTGCACATTGTCACCTCTGGAACCGG-----GTCGCACTCTGAAAGTAG 1179
Qy 596 TTGACACATTCTATCTCCACCTTGAAACATAGTAGCTGTTGAGCTCTTACTC 655
Db 1180 ATTTGCACATTGTCACCTCTGGAACCGG-----GTCGCACTCTGAAAGTAG 1179
Qy 656 CAGCCTTCTCCAAACCTCTTAATTCTGAGGAGCTCTCTCTATGAGGAC 715
Db 1222 CAACCTGTCCTCTAGCCCTCTTAATCTGAGGAGCTCTCTCTATGAGGAC 1278
Qy 716 TAACCCCTACAGTTATGCAATGAGTACTGAGAAAGCCAGATTCTTACCATATG 775
Db 1279 GGATCCCTCGACTGATGAGTACGAGCTGAGGACTTC-----TCATCAAGGT 1338
Qy 776 GCCATTAACTTTTGTACCATGAGTACGAGAAAGGCCAGATTCTTACCATATG 835
Db 1339 GCCTTAACTTTCTGACCGAGAGCTGGCAGAGCTGGCTTCTATACATAGGGC 1398
Qy 836 TGGAGAAGGGTAGCCCTTGCCCTGGGAAGCTCAAGGACCAANGA 895
Db 1399 TGGAGAAGGGTGCCCTTGCCCTGGGAAGCTGAGCAACTGGAAACCTGGAAACCAANGA 1458
Qy 896 TGATGCTATGTCAGAACCGGAGGATTCCACCTGCTTCTGAAATTCTCT 955
Db 1459 TGATGCTATGTCAGAACCGGAGGATTCTCCACTGTCATTCTGAAATCTC 1518
Qy 956 AGAACCTCTGAGGTTAGCATCAATCTGAGGAGCTGAGGAGCTGGTTTATATAGGAC 1015
Db 1519 AGAACCTCTGAGGTTAGCATCAATCTGAGGAGCTGAGGAGCTGGTTTATATAGGAC 1578
Qy 1016 AACATTATGTACTGCCATCTAGTGTCTTCCAGTCAGCTGAGCAACTGGAAACCAANGA 1075
Db 1579 GACATTCTGACTGCCATCTAGTGTCTTCCAGTCAGCTGAGCAACTGGAAACCAANGA 1638
Qy 1076 TTTTATATGTCGCGCAATGATGTCATAATGCTCTTGTGTCATGGGCTCTG 1135
Db 1639 ATCTTATAGTGGATGCAATGATGTCATAATGCTCTTGTGTCATGGGCTCTG 1698

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QY 1136 GTGTTGGGAATCTGGAGATGCCATCGGTAGAACATC(CAAGTGGTTCCAAGGTGTA 1195  
Db 1699 ATGTTGGAACTGGAGATGACCCCTGGATAGAACACGC(CAAATGGTTCCAAGGTGTA 1758  
QY 1196 GTTCCTGATACGAACTGAAAGGCCAAGTTGTTGATGAGATTCAAGTAGATATCTCA 1255  
Db 1759 GTTCCTGATACGGATGAGGGTCAGGAGTTGTTGATGAGATTCAAGTAGATATCTCA 1818  
QY 1256 TCTCTTGACAGCTGTTGTCACTTGAGATACCTGAGAAGAAATGCTGACCC--- 1312  
Db 1819 TCTCTTGACAGCTGTTGTCACTTGAGATACCTGAGAAGAAATGCTGACCC--- 1878  
QY 1313 ---ACCAATTATCATTGAGCTGGAGAAGTCTTCAGAAGATGCTGTTGAGAA 1369  
Db 1996 GGTTCAGGGCAGATCCGGCCACTGGTGAAGACATACAGACGGCTCATGTC 2055  
QY 1490 AGCACITCTTAATGCTGAGATGAAAGAGAGAGAGAGAGAGAGAGAGAGA 1549  
Db 2056 AGTACTTTGATGCTGAGATGAGAGAGAGAGAGAGAGAGAGAGAGA 2115  
QY 1550 AATGGCATCAGATGATTGTCATAATTGGAGAACAGAACAGAACACAAAC 1609  
Db 2116 GATGGCATCAGGTGACTTACACTGATGGAGATGCTGCTTCAACATT 2175  
QY 1610 GACATGTTGCTCTTAACTCTGGATAATCTTTAAAGGCCATGTAATTAAACGGA 1669  
Db 2176 GACACATGTCCTCTTAACTCTGGATAATCTCTGGCCCTCTTCAACATT 2235  
QY 1670 ACATGATAATTAAACGAAACACAGAACATCTTACAGCAGGAGACTGATTGATC 1729  
Db 2236 ACATGATAATTAGACAAACACAGAACATCTTACAGCAGGAGCTTGTAC 2295  
QY 1730 CATTGGTTAAAGGAATGCTGCGCAGACATCTTCAAACACTGCTAAAGGAATG 1789  
Db 2296 CGTTTATGCAAGGAAATGCTGCGCAGACATCTTCAAACACTGCTAAAGGAATG 2355  
QY 1790 CTCTACATGTTAGAACATCTTGTGATAAGATATTCACAGAA 1849  
Db 2356 CTCCACATTATGAAACTTATTCTGGAAAGGAAATGATATTCACAGAA 2415  
QY 1850 TGTTCAGGTCTGCACTGGAAAGAACATGGAGGTGCAAGAAGAGAACCTGAA 1909  
Db 2476 AGTGTGTATGGACAAGAGTTCTGGTATTATTCCTGGTCATCTGTAGTAG 1969  
Db 2416 CGTTTCAGGTTGTCAATTGAAAGGAAATGATATTCACAGAA 2475  
QY 1970 CCAGGAATGTCGCCCTCTCTAAAGAAATGCCATTTCAGGGATAATCAAGGGTAC 2029  
Db 2536 CCAGGAATGTCGCCCTCTCTAAAGAAATGCCATTTCAGGGATAATCAAGGGTAC 2595  
QY 2030 TGTTCATCTCTCTCTCTAAAGAAAATAGTCTATAATTAACTGCTATAAAAGTC 2089  
Db 2596 TGTGGCCACATTCTCTCATGA-----GTGAGAATGT 2629  
QY 2150 AATTAGTACATTGACACTTGAACTGAAAGGAATATGTTTC 2149  
Db 2687 AGCTCTGAGGACACTCTACTCTCTCAAGGAAATGAACTACTGA---TTTC 2686  
QY 2210 GGATCATATATTAATCTTAATCTGTTTATTACAAGGAAAGATTGTTGGTGCAC 2269

RESULT 13  
US-08-800-929A-13  
Sequence 13, Application US/08800929A  
Patent No. 6139437

GENERAL INFORMATION:

APPLICANT: Korneluk, Robert G  
APPLICANT: Mackenzie, Alexander E  
APPLICANT: Liston, Peter  
APPLICANT: Baird, Stephen  
APPLICANT: Tsang, Benjamin K  
APPLICANT: Pratt, Christine

TITLE OF INVENTION: DETECTION AND MODULATION OF  
TAPS AND NAIP FOR THE DIAGNOSIS AND TREATMENT OF PROLIFERATIVE  
DISEASE

TITLE OF INVENTION: DISEASE

NUMBER OF SEQUENCES: 17

CORRESPONDENCE ADDRESS:  
ADRESSEEE: Clark & Ebing LLP  
STREET: 176 Federal Street  
CITY: Boston  
STATE: MA  
COUNTRY: USA  
ZIP: 02110

COMPUTER READABLE FORM:  
MEDIUM TYPE: Diskette  
COMPUTER: IBM Compatible  
OPERATING SYSTEM: DOS  
SOFTWARE: FASTSEQ for Windows Version 2.0

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/800,929A  
FILING DATE: 13-FEB-1997  
CLASSIFICATION: 424

PRIOR APPLICATION DATA:

APPLICATION NUMBER: 60/030,590  
FILING DATE: 14-NOV-1996  
APPLICATION NUMBER: 60/017,354  
FILING DATE: 26-APR-1996

ATTORNEY/AGENT INFORMATION:

NAME: Beker-Brady, Kristina  
REGISTRATION NUMBER:  
REFERENCE/DOCKET NUMBER: 07891/009001

TELECOMMUNICATION INFORMATION:

TELEPHONE: 617-428-0200  
TELEFAX: 617-428-7045  
TELEX:

INFORMATION FOR SEQ ID NO: 13:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 3151 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single

; TOPOLOGY: linear  
; MOLECULE TYPE: cDNA  
; US-08-800-929A-13

Query Match 51.9%; Score 1343.6; DB 3; Length 3151;  
Best Local Similarity 76.2%; Pred. No. 3.5e-278;  
Matches 1852; Conservative 0; Mismatches 499; Indels 79; Gaps 13;

|    |      |   |      |    |      |  |      |
|----|------|---|------|----|------|--|------|
| Qy | 116  | TTGGTGTGAAATCTTGTAGTCAGTGAGAATTCACTGTAAGTTGATGTTAGCTCAA       | 175  | Db | 1639 | ATTCTTAACTAGTGGATGCCATGATGATGTCAGTGCTTGTGAGGGCTGAG     | 1698 |
| Qy | 702  | TGTGGTGGAGATCTAGTGTCCAGTGAGAATTCACTGTAAGTTGATGTTAGCTCAA       | 175  | Qy | 1136 | GTTGTTGGAATCTGGAGATGCCATGATGATGTCAGTGCTTGTGAGGGCTGAG   | 1195 |
| Qy | 176  | ACAGCACTGCACCTACTATGCAACAACCTGCTCCAAAGACCTTCCAGGTCCTC         | 235  | Db | 1699 | ATGTTGGAACTGGAGATGCCATGATGATGTCAGTGCTTGTGAGGGCTGAG     | 1758 |
| Qy | 762  | AATACTATT--ACTACTATGCAACAACCTGCTCCAGAGACTCGGGCAAGGTACCT       | 819  | Qy | 1196 | GTTCTGAAACGCTGTGAACTTCAGATACACTGGAGAACAAATGCTGACCTCA   | 1255 |
| Qy | 236  | GTATCAACATAGAGATAATGGAGATAGCACGACTGTGAGATGAGTTGAGGTTA         | 295  | Db | 1759 | GTTCTGAGTAGGATGAGGTCAAGGTTGAGGTTGAGGTTGAGGTTCAAGGTGTC  | 1818 |
| Db | 820  | ACACCAAACTTAACCTATAATGAGATGAGTTGACTTTCGTTGAGAGACACATCT        | 879  | Qy | 1256 | TCTCTTGAAACGCTGTGAACTTCAGATACACTGGAGAACAAATGCTGACCTCA  | 1312 |
| Qy | 296  | CAACAAACAAATGAGATAATGACTTTCGTAACCTACAGAAAGGAGCTCTACAT         | 355  | Db | 1819 | TCTCTTGAGCAGCTGTGCACTTCACCTCAGACACCCAGGAGAACAAATGCTGAC | 1878 |
| Db | 880  | GAGCGAGAAAGAAATGAGATGAGTTGACTTTCGTTGAGAGACACATCT              | 939  | Qy | 1313 | --ACCAATTATCATTTGGACCTGGAGAACAGTCTTCAGAGAGTCCTGAGAACAG | 1369 |
| Qy | 356  | AACTTCCCAGGGGGCTGCTGTCTAGAAAGGAGCTCTACTGCTGAGCTTATTC          | 415  | Db | 1879 | AGAGACAGTGGTCATTGGCCCTGGAGAAG--TTCGAAGATGCTGTGATGAG    | 1995 |
| Db | 940  | AGCTTTCAGGGGAGTTCTGCTCTAGAGAGGAGCTCTGCTGAGCTTATTC             | 999  | Qy | 1936 | CACCCCTGTTAACTCGCTGAAATGGCTTAAAGAGACAGTCTTCAGAGAACAC   | 1935 |
| Qy | 416  | TACTGGTGTGAATGACAGAGGTCAAATCTCTGTGTTGGCTGTGATACTGAA           | 475  | Db | 1430 | AGTCAGAGTAATCTGACAACTGGAGAACATTAACAGTTATGATATTGTC      | 1489 |
| Db | 1000 | TACAGGTGTGAATGACAGAGTCAAGTCTCTGCTGCTGCTGAGCTTATTC             | 1059 | Qy | 1996 | GGTCAGGGCAATCTGGCCTGAGCTGGTGTGAGTAACTGAA 1429          | 2055 |
| Qy | 476  | ACTAGGAGACAGTCCTATCAAAAGCTAACAGCTATGCTGAGCTTATTCA             | 535  | Db | 1996 | AGCACTCTAAATGTCAGAGTAAAGGAGAGGAGGAGGAGAACAGCTGGTAAC    | 1549 |
| Db | 1060 | ACAAGGGGAGTCCTGCTGAAAGCAAGCAGTCCTATGCCAGCTTGTACA              | 1119 | Db | 2056 | AGTACTTTGAATGTCAGAGTAAAGGAGGAGGAGGAGAACAGACTGAGA       | 2115 |
| Qy | 536  | GAATCTGGTTCACTGAGTCTGGATOCACCTCTAGAATGCTCTGAGAACAG            | 595  | Qy | 1550 | AATGGCATAGATGTTGCTTAACTGGCTTAAATGAGAACAGTCTGGCTTCAAC   | 1609 |
| Db | 1120 | GACTCTGCTTCACTGCTGAGTCAGTCCTCATCTAGAATGTCCTGAGAAG             | 1179 | Db | 2116 | GATGCCATCAGGTTACTTACCTGATTCAGCTGAGCTTCAAC              | 2175 |
| Qy | 596  | TTTGACACATTCAATTCTCCACCTCTGAAACATAGTAGCTGTTGAGTTCTRACTC       | 655  | Qy | 1610 | GACMTGTTGCTCTATCTCTGGATAATCTTAAAGGCCAATGTAATTAAACAGGA  | 1669 |
| Db | 1180 | ATTCGACATTCGTCACCTCTGGAAACAG-----GTGGCATTCACCT                | 1221 | Db | 2176 | GACAGATGTCCTCTATCTCTGGATAATCTTCAAGGCTGAGTAACTACAGGA    | 2235 |
| Qy | 656  | CAGCCATTCTCCAACACCTCTTAATTCTTAGAGCAGTGTGAGACACATCTCTCATCGAGAC | 715  | Qy | 1670 | ACATGATATATTAAACAAAACAGATACCTTTACAGCGAGAGACTGATGATAC   | 1729 |
| Db | 1222 | CAACCTGTCCTTASCCCTCTTAATTCTTAGAGCAGTGTGAGACTCT--TCATCAAGGAT   | 1278 | Db | 2236 | ACATGATATTATAGACAGAAACACAGATAACCTTACAGCAAGAGCTTACAGAC  | 2295 |
| Qy | 716  | TAACCCCTACAGTTATGAGAGTCAAGAAGGAGCAATTCTTACCTACATGTC           | 775  | Db | 2296 | CATTGTTAGTCACGGAATGTCGAGCCACATCTCAAAACTGCTTAAGAATG     | 2355 |
| Db | 1279 | GGATCCCTGAGCTATGCCATGAGTACAGAAAGGGCAGATTCTTACCTACAGATGTC      | 1338 | Qy | 1790 | CTCACATGTTAGACAGAAATGTCGGGCCAACATCTCAAAACTGCTTAAGAATG  | 1789 |
| Qy | 776  | GCCATTAACTTTCTACCATCAGAATGGCAAGAGCTGGTTTATTATAGACC            | 835  | Db | 2356 | CTCACGTTATGAGAAACTTATGTTGAGAAGATATGAGAAGTATTCACAGAGA   | 2415 |
| Db | 1339 | GCCTTTAAGTTCTGTCACCGAGAGCTGGCTTCTATTACATAGGGCC                | 1398 | Qy | 1850 | TGTTTCAGGTCTCACTGGAGAACATTAGAGGGTTGCAAGAGAACAGTGTAA    | 1849 |
| Qy | 836  | TGGAGATAGGGTAGCTCTTGTGCCCTGGGGAGCTCAGTACCTGGAAACCAAGGA        | 895  | Db | 2416 | CGTTTCAGGTCTCACTGGAGAACATTAGAGGGTTGCAAGAGAACAGTGTAA    | 2475 |
| Db | 1399 | TGGAGACAGGGTAGCTCTTGTGCCCTGGGGAGCTCAGTACCTGGAAACCAAGGA        | 1458 | Qy | 1910 | AGTGTGTTAGGAGAGGTTCTGTTGATTTCTCTGAGGAGTCACTGGATGATG    | 1969 |
| Qy | 896  | TGATCTCTATGTCAGAACACGGGAGGCTTCCAACTGTCATTCTGGAAATTC           | 955  | Db | 2476 | AGTGTGTTAGGAGAGGTTCTGTTGATTTCTCTGAGGAGTCACTGGATGCTG    | 2535 |
| Db | 1459 | TGATCTCTATGTCAGAACACGGGAGGCTTCCAACTGTCATTCTGGAAATTC           | 1518 | Qy | 1970 | CCAGGAATGTCGCTCTCTTAAAGAAAATGCCATTATGCAAGGGTAC         | 2089 |
| Qy | 956  | AGAAACTCTGAGCTTCTGCAATCTGAGCATCAGACACATCAGCTGATGAG            | 1015 | Db | 2536 | CCAGGAATGTCGCTCTCTTAAAGAAAATGCCATTATGCAAGGGTAC         | 2595 |
| Db | 1519 | AGAAACACAGAGGTTAGTATCAAACTAAGTACAGACACCTCTGCTGAG              | 1578 | Qy | 2030 | TGTTCTGACATTTCTCTTAAAGAAAATGCCATTATGCAAGGGTAC          | 2089 |
| Qy | 1016 | AACATTATGTACTGCCATTCTAGCTGCTGAGCTGAGCTGAGCTGAGCTG             | 1075 | Db | 2596 | TGTCGGCACTTTCTCTGAGAAGTATGAGATGAGTGTGAGGTTTC           | 2629 |
| Db | 1579 | GACATTCTGACTGCCACTAGTCAGTCTCTGTCAGCCAGGAGCTGCAAGTGTG          | 1638 | Qy | 2090 | TTTAAATATGTTGAGACACTGAGCTGAGCTGAGAACAGTACTGAA          | 2686 |
| Qy | 1076 | TTTTATTATGTCGGGCAATGATGTCAAATGTCATTGTCAGGTTCTGAG              | 1135 | Db | 2630 | CTGAAAGTATTGTTGAGCATGAGCTGAGCTGAGAACAGTACTGAA          | 2209 |



|    |      |  |      |
|----|------|--|------|
| Qy | 1430 | AGTTCAAAGTAATCTGACCAACTGGAGAACTATAACAGTTAATGTGTC         | 1489 |
| Db | 1490 | AGCACTCTAAATGCTGAAGATGAAAAAGAGGAGGAGAAACAGTCAGTC         | 1549 |
| Db | 1996 | GGTTCAGCGGCAGATCTGCCTGCACTGGTGAAGACTACAGCACCGTC          | 2055 |
| Db | 2056 | AGTACTTTGTAATGCTGAAGATGAGAGAAGAGGAGAGAACAGCTC            | 2115 |
| Qy | 1550 | AATGGCATAGATGATTGCTTAACTGATTCCGAGAACAGAACATGGCT          | 1609 |
| Db | 2116 | GATGGCATGGTGAATGACTGATTCCGAGAACAGAACATGGCT               | 2175 |
| Qy | 1610 | GACATGTTGCTCTTATCTGGATAATCTTTAAGGCCAGAACAGAAC            | 1669 |
| Db | 2176 | GACACATGTCCTCTATCTGGATAATCTCTGGATAATCTAACAGCA            | 2235 |
| Qy | 1670 | ACATGATATTAAACAAACACAGAACATCTTACA:CGAGAGAACTGATG         | 1729 |
| Db | 2236 | ACATGATATTAAACAGAACACAGAACATCTAACAAACTCTGAGAAC           | 2295 |
| Qy | 1730 | CATTGGTTAAAGGAATGCTGGGCCACATCTCAAAACTGCTAAAGAAATG        | 1789 |
| Db | 2296 | CGTTTAGCTCAAGGAAAGCTGCAGCCACATCTCAAAACTCTGAGAAC          | 2355 |
| Qy | 1790 | CTCTACATGTTATAAGAACATTGTTGCTAAAGAATATGAGTATTCACAGA       | 1849 |
| Db | 2356 | CTCAGCTTAAACAGAACACAGAACATCTAACAAACTCTGAGAAC             | 2415 |
| Qy | 1850 | TGTTCAAGCTGTCACTGCAAGAACATTGAGGAGTGAGAACAGAAC            | 1909 |
| Db | 2416 | CGTTCAAGCTGTCATGGAGAGAACATTGAGGAGTGAGAACAGAAC            | 2475 |
| Qy | 1910 | AGTGTGTTATGCAAAAGAACATTGTTGTTGTTATTCTGGTCATCTGGTAG       | 1969 |
| Db | 2476 | AGTGTGTTATGCAAGAGGAGTTCTATCTGTTCATCTGGTCATCTGGTAG        | 2535 |
| Qy | 1970 | CCAGGAATCTGCCCTTCCTCTAGAAATGCOCTATTGCGGGTATATCAAGG       | 2029 |
| Db | 2536 | CCAGGAATCTGCCCTTCCTCTAGAAATGCOCCATCTGCGGGAGAACATCAAGG    | 2595 |
| Qy | 2030 | TGTTGTTATGTTCTCTCTTAAGAAATATTGCTTATTTAACCTGCTAAAGG       | 2089 |
| Db | 2596 | TGTGCGCACATTTCTCTGTA-----GTGAGAGATGCT                    | 2629 |
| Qy | 2090 | TTTAAATATTGTTGAACACTGCAAGCCATCTAAAGTAAGGAAATTGAGTT       | 2149 |
| Db | 2630 | CTGAAAGTATGTTGGACATCGAACAGAACAGAACATGAGA---TTTC          | 2686 |
| Qy | 2150 | AATTAGTAACTCATCTATGTTCTAGTCTGCTTGTGACTAAATCTGTTCTGAAAGAT | 2209 |
| Db | 2687 | AGCTCTCAGCAGGACATCTACTCTCTCAAGATTGTTAATCTGTTATGAGGGT     | 2746 |
| Qy | 2210 | GGTATCATATTAACTCTTACAGGGAGATTGTTGGTGTAC                  | 2269 |
| Db | 2747 | AGCATGTTATTAAGCTTGTCTGTT----GCAAGGAGGTCTGTCAG            | 2800 |
| Qy | 2270 | TATATTAGTATGTTGTTGACTAAGGGAGTAGTGTCTGTTCTGTTTGCA         | 2329 |
| Db | 2801 | TACAGGACTGTTCTGTTCCAGAGCAGGAGGTGGATGCTGTTGTCAG           | 2856 |
| Qy | 2330 | GGAGTTACTGGATTGTTCTTCTGAGCTTGTGAACTAAATTATGTTGAGAA       | 2389 |
| Db | 2857 | GGACTCTCTGGAT---TGGATTGTTGAGCTTGTGTTGAGCTGTCAG           | 2913 |
| Qy | 2390 | AGAGACTGGAAACAGGAACCTGGAGTTCATCAGAGTTGTTGAGCTGTC         | 2449 |
| Db | 2914 | AAATCCCTGAAACAGGAGCTCTGGTACTCA-GTAGTGTGGTACCTGTC         | 2971 |
| Qy | 2450 | GCTTTCACTGGTTAAATAAGGATTTCCTCTTCTCCCCTAGTTGTC            | 2509 |
| Db | 2972 | GCTTTCCCTCTG--GAAATAAGGATTTCCTGCTACTGTAATATTCTGTTG       | 3028 |
| Qy | 2510 | AAACATCTCAATAAGTGTAAAGAAA                                | 2539 |

RESULT 15  
US-09-201-936-41  
; Sequence 41, Application US/09201936  
; Patent No. 6541457  
; GENERAL INFORMATION:  
; APPLICANT: Kornieluk, Robert G.  
; APPLICANT: Mackenzie, Alexander B.  
; APPLICANT: Baird, Stephen  
; APPLICANT: Liston, Peter  
TITLE OF INVENTION: MAMMALIAN TAP GENE FAMILY,  
TITLE OF INVENTION: PROBES, AND DETECTION METRO  
FILE REFERENCE: 07891/000303  
CURRENT APPLICATION NUMBER: US/09/201, 936  
CURRENT FILING DATE: 1998-12-01  
EARLIER APPLICATION NUMBER: 09/011, 356  
EARLIER FILING DATE: 1998-02-04  
EARLIER APPLICATION NUMBER: PCT/IB96/01022  
EARLIER FILING DATE: 1996-08-05  
EARLIER APPLICATION NUMBER: 08/576, 956  
EARLIER FILING DATE: 1995-12-22  
EARLIER APPLICATION NUMBER: 08/511, 485  
EARLIER FILING DATE: 1995-08-04  
NUMBER OF SEQ ID NOS: 45  
SOFTWARE: FastSEQ for Windows version 3.0  
SEQ ID NO 41  
LENGTH: 2416  
TYPE: DNA  
ORGANISM: Mus musculus  
US-09-201-936-41

|    |      |   |      |    |      |   |      |
|----|------|---|------|----|------|---|------|
| QY | 555  | CCAGCCTTCCTCAAACCTCTTAATCTAGACGAGTTGAAGACATCTTCATCGAGGA     | 714  | Db | 1729 | CCATTGGTAAAGGAAATCTGGGCCAACATCTCAAACAACTGCTAAAGAATTG      | 1788 |
| Db | 522  | CCAACCTGTCCTAGCCCTTAACTCTGAGCAGTGGAAAGTC--TCATCAAGGA        | 578  | Db | 1596 | CCGTTAGTCAGGAAATCTGCAGCCAACTCTTCAAACACTCTGAAGGAATTG       | 1655 |
| QY | 715  | CTAACCCCTACGTATGCAAGAGACTGAGAAGGCCAGATTCTTACCTACCATATG      | 774  | QY | 1789 | ACTCTACATGCTATAAGAACTTATTGTTGAGATAAGATATGAGTATATTCCACAGAG | 1848 |
| Db | 579  | TGGATCCCTGCGCTATGCTCACCGTAGAGTACAGAAGAGAGGCGAGATTCTTACAGATG | 638  | Db | 1656 | ACTCCACGTTATGAAACTTATTGTTGAGAAAGAATATGAGTATATTCCACAGAG    | 1715 |
| QY | 775  | GGCCATAACTTTGTACATCAGAAATTGCAAGAGCTGCTGTTTATTATAGGAC        | 834  | QY | 1849 | ATGTTTCAAGCTGTCACTGGAGAACATGGAGAGGAGTGGAGAGAACAGACTGTA    | 1908 |
| Db | 639  | GGCTTAAAGTTCTGTCACCGCAGAGCTGGCCAGGGATTTCTTACTTACAGATG       | 698  | Db | 1776 | ARGTGTGATGAGCAGAGCTGCTGTTTCTGAGGAAACTGGAGACCAAGG          | 1835 |
| QY | 835  | CTGAGATAGGGTAGGCTGCTGCTGGGGAGGAAAGCTGCTGTTTATTATAGGAC       | 894  | QY | 1716 | ACGTTTCAAGCTGTCATGGAGAGAGCTGGAGATTACAGAGAACAGACTGCA       | 1775 |
| Db | 699  | CTGGAGACAGGGGGGCTGTTTGGCTGTTGGGAACCTGGAGACCAAGG             | 758  | QY | 1909 | AAGTGTGTTGACAAGAACATGGGAGCAAGCTGAGTGGAGCTGAGTGGACCAAGG    | 1908 |
| QY | 895  | ATGATGCTATGTCAGAACACCGAGGATTCCAACTTGTGAGCATGAGACATGAGA      | 954  | Db | 1777 | CTGTTTCAAGCTGTCATGGAGAGAGCTGGAGATTACAGAGAACAGACTGCA       | 1775 |
| QY | 759  | ATTAGCTATGTCAGAGCACCGCAGACATTCCCACCTTCTGAAATACTT            | 818  | QY | 1969 | GCCGGAATGTCGCCCCCTCTCTAAAGAAAATGCCATTGAGGTTATACTGGAGA     | 2028 |
| Db | 955  | TTAGAACTCTGGGTTAGCAATTCAATCTGAGCATGAGACATGAGCAGTGAATG       | 1014 | Db | 1836 | GCCAGGAATGTCGCCCCCTCTCTAAAGAAAATAGCTATATTAACTCTGCA        | 1895 |
| QY | 819  | CAGAACACAGGGTTAGTAACTCAATCTGAGCATGAGACACTCTGCTGATG          | 878  | QY | 2029 | CTGTCGACATTCTCTCTAAAGAAAATAGCTATATTAACTCTGCA              | 2088 |
| Db | 1015 | GAACATTATGACTGGCCATCTAGTGTCCAGTCAGCTGAGCAGCTGCAAGTGT        | 1074 | QY | 1896 | CTGTCGACATTCTCTCTAAAGAAAATAGCTATATTAACTCTGCA              | 1929 |
| QY | 939  | GATCTTATGAGCTGGATGCGCAATGATGATGTCAGTCAGTGGCTGAGTGT          | 938  | Db | 2089 | CTTAAATAATATGTTGAACTTGAGCCATCTAAAGTAANAGGAATTATGAGTTT     | 2148 |
| Db | 879  | GGCATTTCTGFACTGGCCACCTAGTGTCTCTGTCAGTCAGTGGCTG              | 998  | Db | 1930 | TCTGAAAGTATGTTGGACATCAGAACAGGAGTCAGTGTGAGTGTG             | 1986 |
| QY | 1075 | GTTTTATATGCTGGTGCAGATGATGATGTCAGTGTGTTTGTGATGTTG            | 1134 | QY | 2149 | CAATTGAACTCTGTCAGTCAGTGTGTTGTTACTATACTCTGTTCTGAAAGA       | 2208 |
| Db | 939  | GATCTTATGAGCTGGATGCGCAATGATGATGTCAGTCAGTGGCTGAGTGT          | 998  | Db | 1987 | CAGCTCTCAGCAGGACATCTACTCTCTCTCAAGATAGTAACTGAGTTT          | 2046 |
| QY | 1135 | GGTGTGGAAACTCTGGAGATGATCCATGGTACATGTCAGTGTGTTCCAGGTGT       | 1194 | QY | 2209 | TGGTACATATAATTAACTCTAACTCTGTTTAACTACAGGGAGATTGTTGGTGA     | 2268 |
| Db | 999  | GATGTTGGAAACCTGGAGATGACCCCTGGATAGACAGCAGCAATGGTCCAGGTGT     | 1058 | Db | 2047 | TACATGTTAACTTAACTCTGTTGAGATGAGTGTGAGTGTGAGTGTG            | 2100 |
| QY | 1195 | AGTCTGTGATAGAACTGGAGATGACCCCTGGATAGACAGCAGCAATGGTCCAGGTGT   | 1254 | QY | 2269 | CTATATGAGTGTGTTGAGACTTAAAGGGAGTAGTGTCACTCTGTTCTGAAAGA     | 2328 |
| Db | 1059 | AGTCTGTGATAGGGATGAGGAGCAGGAGTGTGAGTGTGAGTGTG                | 1118 | Db | 2101 | CTACAGGACTCTGTCGTCAGAGCAGGAGTGTGAGTGTG                    | 2156 |
| QY | 1255 | ATCTTCTGAAACGGCTGTCACCTCAGATACCTGAGAAATGCTGACCC--           | 1312 | QY | 2329 | AGGAGTACTGGATTGTTCTCTCAGAAACCTGAGTTAACTAATTATGAGAA        | 2388 |
| Db | 1119 | ATCTTCTGAGCAGCTGTCACCTCAGACACCCAGAGAGAAATGCTGACCTA          | 1178 | Db | 2157 | AGGACTCTGGGATTGGGAATTGGGAACCTTGGAACTCTGAGTGTG             | 2216 |
| QY | 1313 | ---ACCAATTATCATTGGACCTGGAGAAAGTCTGAGATGCTGAGTATGTA          | 1368 | QY | 2389 | AGAACTGGAAACCGGAACCTGAGTGTGAGTGTGAGTGTG                   | 2448 |
| Db | 1179 | CAGAGACAGGGGCAATTGGGCACTTGGCCCTGGAGAAG---TCTGAGATGTCATGTA   | 1235 | Db | 2217 | GAATCTGGACCAAGGACTCTGAGTGTGAGTGTGAGTGTG                   | 2274 |
| QY | 1369 | ATACACCTGTGTTAAATCTGCTTGGAAATGGCTTAACTAGAGACTCTGGAAACAA     | 1428 | QY | 2449 | TGCTTTCACCTGTTAACTAGAGTGTGAGTGTGAGTGTG                    | 2484 |
| Db | 1236 | GCAAGCCTGTCGGTAAAGCAGCCTGGAAATGGCTCACTAGAGCTGGTGAAGA        | 1295 | Db | 2275 | TGCTTTCACCTGTTAACTAGAGTGTGAGTGTG                          | 2310 |
| QY | 1429 | CAGTCAAGTAAATCTGACACTGGAGACTTAAACAGTTATGATGATGTT            | 1488 |    |      |   |      |
| Db | 1296 | CGGTTCAAGCTGTCAGGGAGATCTGGCAACTGGTGGAGTACATGAGCTGTT         | 1355 |    |      |   |      |
| QY | 1489 | CAGCACTCTAAATGCTGAGAAGTGAAGAAAGAGGAGGAGGAGAAACAGCTGAG       | 1548 |    |      |   |      |
| Db | 1356 | CAGTACTTCTGAGTGTGAGATGAGAGAGAGAGAGAGAGAGAGAGAGAG            | 1415 |    |      |   |      |
| QY | 1549 | AAATGGCATCAGGAGTGTGCAATTGGAGAACACAAATGGCTCTCTGAAACAT        | 1608 |    |      |   |      |
| Db | 1416 | AGATGGCATCAGGAGTGTGCAATTGGAGAACACAAATGGCTCTCTGAAACAT        | 1475 |    |      |   |      |
| QY | 1609 | TGACATGTTGTCCTATCTGAGATAATCTTAAAGGCAATGAGTATAATAACAGG       | 1668 |    |      |   |      |
| Db | 1476 | TGACACATGTCCTCTCTGAGATAATCTCTGAGGCACTGAGTATAACAGG           | 1535 |    |      |   |      |
| QY | 1669 | AACTGATATTTAACAAACACAGATACCTTACAGAGAGAACTGATGATA            | 1728 |    |      |   |      |
| Db | 1536 | AACTGATATTTAGACAGAAACACAGATACTGCTTACAGAGAGAGCTTATGACA       | 1595 |    |      |   |      |

GapCore version 5.1.6  
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OM nucleic - nucleic search, using sw model

Run on: December 4, 2003, 14:22:05 ; Search time 815 Seconds  
 (without alignments)  
 10558.035 Million cell updates/sec

Title: US-08-569-749-1

Perfect score: 2589

Sequence: 1 TCTAAGTAGTATCTTGAAA.....AAAAAA...AAAAAA 2589

Scoring table: IDENTITY\_NUC Gapop 10.0 , Gapext 1.0

Searched: 2201672 seqs, 1661799599 residues

Total number of hits satisfying chosen parameters: 4403344

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

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36: /cgmn\_6/ptodata/2/pubpna/US60\_PUBCOMB.seq:\*

### RESULT 1

Sequence 1, Application US-10232286  
 Publication No. US20030143579A1

#### GENERAL INFORMATION:

APPLICANT: Rothe, Mike

TITLE OF INVENTION: INHIBITORS OF APOPTOSIS

NUMBER OF SEQUENCES: 14

CORRESPONDENCE ADDRESS:

ADRESSEER: FIEHR, HOWACH, TEST, ALBRITTON & HERBERT  
 STREET: 4 Embarcadero Center, Suite 3400  
 CITY: San Francisco  
 STATE: California  
 COUNTRY: USA  
 ZIP: 94111

COMPUTER READABLE FORM:  
 MEDIUM TYPE: Floppy disk  
 COMPUTER: IBM PC compatible  
 OPERATING SYSTEM: PC-DOS/MS-DOS

CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: US-10/232,286  
 FILING DATE: 30-AUG-2002  
 CLASSIFICATION: <Unknown>

PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: US/08/569,749  
 FILING DATE: <Unknown>

ATTORNEY/AGENT INFORMATION:  
 NAME: Brezner, David J.  
 REGISTRATION NUMBER: 24,774  
 REFERENCE/DOCKET NUMBER: A-62464/DJB

TELECOMMUNICATION INFORMATION:  
 TELEPHONE: (415)781-1989  
 TELEFAX: (415)398-3249

INFORMATION FOR SEQ ID NO: 1:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 2589 base pairs

TYPE: nucleic acid

STRANDEDNESS: single  
 TOPOLOGY: linear  
 MOLECULE TYPE: cDNA  
 SEQUENCE DESCRIPTION: SEQ ID NO: 1:  
 US-10-232-286-1

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| Best Local Similarity | 100.0%       | Pred. No. 0;  | Mismatches | 0;           | Indels 0; |
| Matches 2589;         | Conservative | 0;  |            |              | Gaps 0;   |
|                       |              |   |            |              |           |
| Qy                    | 1            | TCTAAGTGTATCTGCGAAATTCAAGAGATACTCATCTACTGATAAACAGAT   | 60         |              |           |
| Db                    | 1            | TCTAAGTGTATCTGCGAAATTCAAGAGATACTCATCTACTGATAAACAGAT   | 60         |              |           |
| Qy                    | 61           | AAATCCAGTAAGAAAGCTGAGTAGTAATTCATACATAAGCTGTTAGCTTCTGG | 120        |              |           |
| Db                    | 61           | AAATCCAGTAAGAAAGCTGAGTAGTAATTCATACATAAGCTGTTAGCTTCTGG | 120        |              |           |
| Qy                    | 121          | TGGTAAATCTTAGTCATGTGAAGAAATTCACTGGAATGTTAGCTTCTGG     | 180        |              |           |
| Db                    | 121          | TGGTAAATCTTAGTCATGTGAAGAAATTCACTGGAATGTTAGCTTCTGG     | 180        |              |           |
| Qy                    | 181          | ACTGTCACCTACTCATCACAAACGCTCCAAAGACTTTCCAGGCCCTCGATC   | 240        |              |           |
| Db                    | 181          | ACTGTCACCTACTCATCACAAACGCTCCAAAGACTTTCCAGGCCCTCGATC   | 240        |              |           |
| Qy                    | 241          | AAACATTAAGATATGGAGATAGCAGATCTGTJAGTTGGACAAACAGACA     | 300        |              |           |
| Db                    | 241          | AAACATTAAGATATGGAGATAGCAGATCTGTJAGTTGGACAAACAGACA     | 300        |              |           |
| Qy                    | 301          | AACAAAAAAATGAAGCTGACTTTCTGTGAACTCTACAAATGCTACATTCAC   | 360        |              |           |
| Db                    | 301          | AACAAAAAAATGAAGCTGACTTTCTGTGAACTCTACAAATGCTACATTCAC   | 360        |              |           |
| Qy                    | 361          | TCCCCGGGGTGCCTGTCAGAAGAGCTTGTCGTCAGTGTGTTATTAACTG     | 420        |              |           |
| Db                    | 361          | TCCCCGGGGTGCCTGTCAGAAGAGCTTGTCGTCAGTGTGTTATTAACTG     | 420        |              |           |
| Qy                    | 421          | GTGTCATGACAAGCTCAAATGCTCTGTTGGCTGAGCTGCTAACTGAAACT    | 480        |              |           |
| Db                    | 421          | GTGTCATGACAAGCTCAAATGCTCTGTTGGCTGAGCTGCTAACTGAAACT    | 480        |              |           |
| Qy                    | 481          | GAGACAGTCTATCAAAGCTATACTCTAICGTACTTTCAGAACTGAAACT     | 540        |              |           |
| Db                    | 481          | GAGACAGTCTATCAAAGCTATACTCTAICGTACTTTCAGAACTGAAACT     | 540        |              |           |
| Qy                    | 541          | TGGTTTCAGCTAGCTGGATCCACCTCTAAGAATAGCTTCAGAAACAGTT     | 600        |              |           |
| Db                    | 541          | TGGTTTCAGCTAGCTGGATCCACCTCTAAGAATAGCTTCAGAAACAGTT     | 600        |              |           |
| Qy                    | 601          | CACATTCAATTCTCCACCTGGACATAGTAGTTGTCTAGGGTTCTACCCAG    | 660        |              |           |
| Db                    | 601          | CACATTCAATTCTCCACCTGGACATAGTAGTTGTCTAGGGTTCTACCCAG    | 660        |              |           |
| Qy                    | 661          | TTTCCTCAACCCCTTTATCTAGACGCTGAGACATCTCTGAGGACTTAC      | 720        |              |           |
| Db                    | 661          | TTTCCTCAACCCCTTTATCTAGACGCTGAGACATCTCTGAGGACTTAC      | 720        |              |           |
| Qy                    | 721          | CCTACAGTATGCAATGAGTACTGAGAGCCAGTTCTACCTACATGAGCCAT    | 780        |              |           |
| Db                    | 721          | CCTACAGTATGCAATGAGTACTGAGAGCCAGTTCTACCTACATGAGCCAT    | 780        |              |           |
| Qy                    | 781          | TAACTTTTGTGCACTCAGAATGGCAAGAGCTGTTTATATATAGGACTGG     | 840        |              |           |
| Db                    | 781          | TAACTTTTGTGCACTCAGAATGGCAAGAGCTGTTTATATATAGGACTGG     | 840        |              |           |
| Qy                    | 841          | ATAGGGTAGCTGCTTGCTGTGGGGAGCTGTAATGGGACCAAGGATGATG     | 900        |              |           |
| Db                    | 841          | ATAGGGTAGCTGCTTGCTGTGGGGAGCTGTAATGGGACCAAGGATGATG     | 900        |              |           |
| Qy                    | 901          | CTATGTCAGAACACCGAGGATTCCACTGTCATTGGAAATTCTCTGAA       | 960        |              |           |
| Db                    | 901          | CTATGTCAGAACACCGAGGATTCCACTGTCATTGGAAATTCTCTGAA       | 960        |              |           |
| Qy                    | 961          | CTCTGAGGTTAGGATTCAAATCTGAGCACATGAGCTGAATGAGACAT       | 1020       |              |           |
| Db                    | 961          | CTCTGAGGTTAGGATTCAAATCTGAGCACATGAGCTGAATGAGACAT       | 1020       |              |           |
| Qy                    | 1021         | TTATGTACTGGCCATCTAGTGTCTCAGTCAGCTGAGCAGCTGCAAGTGTGTT  | 1080       |              |           |
| Db                    | 1021         | TTATGTACTGGCCATCTAGTGTCTCAGTCAGCTGAGCAGCTGCAATGAGACAT | 1080       |              |           |
| Qy                    | 1081         | ATTAATGGGTCGAGATGATGAGCTGAACTGCTGTTGTTGTTGTTGTT       | 1140       |              |           |
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| Qy                    | 1141         | GGGAACTGCGAGATGATCCATGGTAGAACATGCCAAGCTGGTTCCAAGGGT   | 1200       |              |           |
| Db                    | 1141         | GGGAACTGCGAGATGATCCATGGTAGAACATGCCAAGCTGGTTCCAAGGGT   | 1200       |              |           |
| Qy                    | 1201         | TGATAGAATGAGGCTTCACTGGTAGAATGTTAGGTTTGTGAGTT          | 1260       |              |           |
| Db                    | 1201         | TGATAGAATGAGGCTTCACTGGTAGAATGTTAGGTTTGTGAGTT          | 1260       |              |           |
| Qy                    | 1261         | TGACACAGTGTGTCACCTGAGTACCTGGAGTCTGAGAACAGGAACT        | 1320       |              |           |
| Db                    | 1261         | TGACACAGTGTGTCACCTGAGTACCTGGAGTCTGAGAACAGGAACT        | 1320       |              |           |
| Qy                    | 1321         | TGATAGAATGAGGCTTCACTGGTAGAATGTTAGGTTTGTGAGTT          | 1380       |              |           |
| Db                    | 1321         | TGATAGAATGAGGCTTCACTGGTAGAATGTTAGGTTTGTGAGTT          | 1380       |              |           |
| Qy                    | 1381         | TAAATCTGCTGTGGAATGGCTTTAATAGAGCTGTTGTAAGGAT           | 1440       |              |           |
| Db                    | 1381         | TAAATCTGCTGTGGAATGGCTTTAATAGAGCTGTTGTAAGGAT           | 1440       |              |           |
| Qy                    | 1441         | AATCTGACAACCTGGAGAGACTAAACAGTTAATGATATTGTCAGACT       | 1500       |              |           |
| Db                    | 1441         | AATCTGACAACCTGGAGAGACTAAACAGTTAATGATATTGTCAGACT       | 1500       |              |           |
| Qy                    | 1501         | ATGCTGAAGATGAAAGAGGAGGAGGAAACAAAGCTGAGAAATGCCATCAG    | 1560       |              |           |
| Db                    | 1501         | ATGCTGAAGATGAAAGAGGAGGAGGAAACAAAGCTGAGAAATGCCATCAG    | 1560       |              |           |
| Qy                    | 1561         | ATGATTTGTCATTAATTGGAGAACTGCTGTCAGTGTGTCAGTGTGTC       | 1620       |              |           |
| Db                    | 1561         | ATGATTTGTCATTAATTGGAGAACTGCTGTCAGTGTGTCAGTGTGTC       | 1620       |              |           |
| Qy                    | 1621         | TTCCTATCTGGATAATTGGAGAACAGAACTCTCTTCACTGAGCTGTC       | 1680       |              |           |
| Db                    | 1621         | TTCCTATCTGGATAATTGGAGAACAGAACTCTCTTCACTGAGCTGTC       | 1680       |              |           |
| Qy                    | 1681         | TAAACAAAACACAGATACCTTCAACGGAGAACAGTGTGATACATTGTT      | 1740       |              |           |
| Db                    | 1681         | TAAACAAAACACAGATACCTTCAACGGAGAACAGTGTGATACATTGTT      | 1740       |              |           |
| Qy                    | 1741         | AAGGAATGCTGGCCAACTCTTCAAAATGCTTAAGAAATTGACTCTACATG    | 1800       |              |           |
| Db                    | 1741         | AAGGAATGCTGGCCAACTCTTCAAAATGCTTAAGAAATTGACTCTACATG    | 1800       |              |           |
| Qy                    | 1801         | ATAAGAACTTATGTGGATAAGATGAGTATTCACACAGAGATGTTGAGTC     | 1860       |              |           |
| Db                    | 1801         | ATAAGAACTTATGTGGATAAGATGAGTATTCACACAGAGATGTTGAGTC     | 1860       |              |           |
| Qy                    | 1861         | TCTACTGGAAACAACTGAGGAGGTGCGAGAACAGACTGTGTAAGGTGTT     | 1920       |              |           |
| Db                    | 1861         | TCTACTGGAAACAACTGAGGAGGTGCGAGAACAGACTGTGTAAGGTGTT     | 1920       |              |           |
| Qy                    | 1921         | ACAAGAAGTTCTGTGTTATTCTCTGGTCACTGCTGTTGTTGTTGTT        | 1980       |              |           |
| Db                    | 1921         | ACAAGAAGTTCTGTGTTATTCTCTGGTCACTGCTGTTGTTGTTGTT        | 1980       |              |           |
| Qy                    | 1981         | CCCTCTCTAGAAATGCTTATTGCAAGGGTATACTGAGGACAAAGGATG      | 2040       |              |           |
| Db                    | 1981         | CCCTCTCTAGAAATGCTTATTGCAAGGGTATACTGAGGACAAAGGATG      | 2040       |              |           |

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; Db 2041 TTCTCTCTAAGAAATAGTCTATAATTAACTGCAAAAAGTCCTTAATATT 2100 ;  
; LOCATION: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 4595, 4613, 4614 ;  
; OTHER INFORMATION: n = A,T,C or G ;  
; US-09-814-353-19934  
; Query Match  
; Best Local Similarity 98.5%; Score 2549.2; DB 12; Length 4614;  
; Matches 2554; Conservative 0; Mismatches 9; Indels 0; Gaps 0;  
; Db 2101 GTGAAACGTGAGGCCATCTAAAGTAAAGGATTAAGTTGAGTTGATGAA 2160 ;  
; Db 2161 TTCACTGTCTAGTCGCTTGGTACTAATCTTGTTTGAAAGATGTTGATGAA 2160 ;  
; TTAATCTTAATCTGTTAACGGAGATTATGTTGAAAGATGTTGATGAA 2160 ;  
; Db 2221 TTAATCTTAATCTGTTAACGGAGATTATGTTGAAAGATGTTGATGAA 2160 ;  
; Db 2281 GTATGTGAACTTAAGGGAGTTACAGGAGATTACAGGAGATTATGTTGAAAGATGTTGATGAA 2220 ;  
; Db 2280 ATTGTGTTAACGGAGATTACAGGAGATTATGTTGAAAGATGTTGATGAA 2280 ;  
; Db 2341 ATTGTGTTAACGGAGATTACAGGAGATTATGTTGAAAGATGTTGATGAA 2340 ;  
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; QY 2521 TAAGTGTCTAAAGGATATGCAAACTGCCTCCAAAGACTTTCCACGCTCGTAC 2580 ;  
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; Sequence 19934, Application US/09814353  
; Publication No. US20030165831A1  
; GENERAL INFORMATION:  
; APPLICANT: Lee, John  
; APPLICANT: Thompson, Pamela  
; APPLICANT: Lillie, James  
; TITLE OF INVENTION: NOVEL GENES, COMPOSITIONS, KITS, AND METHODS FOR  
; THERAPY OF OVARIAN CANCER  
; FILE REFERENCE: MRI-006B  
; CURRENT APPLICATION NUMBER: US/09/814, 353  
; PRIOR APPLICATION NUMBER: US 60/191, 031  
; PRIOR FILING DATE: 2000-03-21  
; PRIOR APPLICATION NUMBER: US 60/207, 124  
; PRIOR FILING DATE: 2000-05-25  
; PRIOR APPLICATION NUMBER: US 60/211, 940  
; PRIOR FILING DATE: 2000-06-15  
; PRIOR APPLICATION NUMBER: US 60/216, 820  
; PRIOR FILING DATE: 2000-07-07  
; PRIOR APPLICATION NUMBER: US 60/220, 661  
; PRIOR FILING DATE: 2000-07-25  
; PRIOR APPLICATION NUMBER: US 60/257, 672  
; PRIOR FILING DATE: 2000-12-21  
; NUMBER OF SEQ ID NOS: 22037  
; SOFTWARE: FastSEQ for Windows Version 4.0  
; SEQ ID NO 19934  
; LENGTH: 4614  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
; FEATURE:  
; NAME/KEY: misc\_feature  
; LOCATION: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 4595, 4613, 4614  
; OTHER INFORMATION: n = A,T,C or G  
; US-09-814-353-19934  
; Query Match  
; Best Local Similarity 99.6%; Pred. No. 0; Mismatches 0; Indels 0; Gaps 0;  
; Db 1 TCTAAGTAGTATCTGGAATTCAGAGAGTACTCATCCTACCTGAATAACTGAGAT 60 ;  
; Db 121 TGTTAAATCTCTAGTCATGTGAAGAATTCATGTAATGTTGATGTTG 2155 ;  
; Db 181 ACTGTCACTACTCATGCAAACTGCCTCCAAAGACTTTCCACGCTCGTAC 240 ;  
; Db 2156 TGTTAAATCTCTAGTCATGTGAAGAATTCATGTAATGTTGATGTTG 120 ;  
; Db 2216 ACTGTCACTACTCATGCAAACTGCCTCCAAAGACTTTCCACGCTCGTAC 2275 ;  
; Db 241 AAACATTAAGGATATGCAAACTGCCTCCAAAGACTTTCCACGCTCGTAC 300 ;  
; Db 2276 AAACATTAAGGATATGCAAACTGCCTCCAAAGACTTTCCACGCTCGTAC 2335 ;  
; Db 301 AACAAAAATGAACTTCTAGCTTCCCTGTAACTCTACAGAATGTCATATTCACTT 360 ;  
; Db 336 AACAAAAATGAACTTCTAGCTTCCCTGTAACTCTACAGAATGTCATATTCACTT 2395 ;  
; Db 361 TCCCCCGGGGTGCCCTCTCAGAAAGGACTCTGCTCTGCTGTGGTTTATTATCG 420 ;  
; Db 421 GTGTGATGACAAGGTCAAATGCTTCCTGTTGGCTGATGCTGGATAACTGGAACATG 480 ;  
; Db 2456 GTGTGATGACAAGGTCAAATGCTTCCTGTTGGCTGATGCTGGATAACTGGAACATG 2515 ;  
; Db 481 GAGACAGTCCTTCAAAGCTAAACGCTATATCCCTAGCTGTAGCTTATTCACTC 540 ;  
; Db 2516 GAGACAGTCCTTCAAAGCTAAACGCTATATCCCTAGCTGTAGCTTATTCACTC 2575 ;  
; Db 541 TGGTTGAGCTAGTCTCGGATCCACCTGAGTAACTCCATGAAACAGTTG 600 ;  
; Db 2576 TGGTTGAGCTAGTCTCGGATCCACCTGAGTAACTCCATGAAACAGTTG 2635 ;  
; Db 601 CACATGATTATCTCCACCTGAGCTAGTCTGAGTAACTCCATGAAACAGTTG 660 ;  
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; Db 2876 ATAGGTAGCTGCTTGCCTGTTGGAGCTCACTACTGGACAAAGGATG 2935 ;  
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 Db 3536 ATGCTGAGATGAAAGAGAGGAGGAGGAGAAACAGCTGAGAATGGCATAG 3595  
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 Db 3776 AAGGAAATGCTGCGCCACATCTCAAACACTGTCATAANGAATTGACTCATGT 3835  
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 Db 3836 ATAAAGRACTTATGCTGGAATGAAACTCTCAAACACTGTCATAANGAATTGACTCATGT 3895  
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 QY 1921 ACAAGAAGTTCTGTTAGGAGCTTGCAAGAGAACAGMACTGTAAGTGTGTG 1980  
 Db 3956 ACAAGAAGTTCTGTTAGGAGCTTGCAAGAGAACAGMACTGTAAGTGTGTG 4015  
 QY 1981 CCCCTCTCTAAAGAAATGCCATTGCAAGGGTATAATCAAGGGTATGTGTGTG 2040  
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 Db 4076 TTCTCTCTTAAGAAATAGTCTATTCTGCTAAAGGCTTTAAGGCTTTAAATT 4135  
 QY 2101 GTGAACTCTGAACTCTAAGTAAAGGATATTGAGTTTCATAGTACA 2160  
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 Db 4436 CCAGGAACTCTGGAGCTCATGAGATTTGTTGCTTGTGAGCTT 4495  
 QY 2461 GTGTTTTAAATAAGGTTTCTCTTATTCTCCCCTAGTTGTGAGAACATCTCAA 2520  
 Db 4496 GTGTTTTAAATAAGGTTTCTCTTATTCTCCCCTAGTTGTGAGAACATCTCAA 4555  
 QY 2521 TAAAGTGTAAATAAGGTTTCTCTTATTCTCCCCTAGTTGTGAGAACATCTCAA 2563  
 Db 4556 TAAGTGTAAATAAGGTTTCTCTTATTCTCCCCTAGTTGTGAGAACATCTCAA 4598  
 DQ RESULT 3  
 US-09-880-107-3354  
 ; Sequence 3354, Application US/09880107  
 ; Patent No. US20020142981A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Horne, Darci T.  
 ; APPLICANT: Vockley, Joseph G.  
 ; APPLICANT: Scherf, Uwe  
 ; APPLICANT: Gene Logic, Inc.  
 ; TITLE OF INVENTION: Gene Expression Profiles in Liver Cancer  
 ; FILE REFERENCE: 44921-5028-WO  
 ; CURRENT APPLICATION NUMBER: US/09/880,107  
 ; CURRENT FILING DATE: 2001-06-14  
 ; PRIOR APPLICATION NUMBER: US 60/211,379  
 ; PRIOR FILING DATE: 2000-06-14  
 ; PRIOR APPLICATION NUMBER: US 60/237,054  
 ; NUMBER OF SEQ ID NOS: 3950  
 ; SOFTWARE: PatentIn Ver. 2.1  
 ; SEQ ID NO 3354  
 ; LENGTH: 3532  
 ; TYPE: DNA  
 ; ORGANISM: Homo sapiens  
 ; FEATURE: Other information: Genbank Accession No. US20020142981A1 U37547  
 ; US-09-880-107-3354

Query Match 97.9%; Score 2535.8; DB 10; Length 3532;  
 Best Local Similarity 99.7%; Pred. No. 0;  
 Matches 2540; Conservative 0; Mismatches 7; Indels 0; Gaps 0;  
 1 TCTAAGTGTACTCTGAAATTCTGAGAGATCTCTTACCTGATATACTGAGAT 60  
 966 TCTAAGTGTACTCTGCTTAATTCTGAGAGATCTCTTACCTGATATACTGAGAT 1025

QY 61 AAATCCCTTAAGAAAGCTGAGTAAATTCTACATAGTGTATATTGATTCTTGTG 120

|    |      |  |    |      |   |
|----|------|--|----|------|---|
| Db | 1026 | AAATCCAGTAAAGAAGTGTAGTAATTCTACATAAGGACTTATCATGGATTTC               | Db | 2106 | GGGAATCTGGAGATGATCCATGGGTAGAACATGCCAAGTGGTTCCAAAGGTGTGAGTCT   |
| Qy | 121  | TGGTAAATCTTAGTTCATGTGAGAAATTCACTGGAATTCATGTGAATGTTTAGCTATCAAACAGC  | Qy | 1201 | TGATACGAATGAAAGGCCAAGAGTTGTGTGAGATTCAGGTAGATATCCTCATCTC       |
| Db | 1086 | TGGTAAATCTTAGTTCATGTGAGAAATTCACTGGAATTCATGTGAATGTTTAGCTATCAAACAGT  | Db | 2166 | TGATACGAATGAAAGGCCAAGAGTTGTGTGAGATTCAGGTAGATATCCTCATCTC       |
| Qy | 181  | ACTGTCACCTACTCATGACAAACTGCCTCCAAGAACATTCATGTGAATGTTTAGCTATCAAACAGT | Qy | 1261 | TGAAACAGCTGTGTGAGACTTCAGATACCACTGGAGAGAAATGCTAACCCACCAATTA    |
| Db | 1146 | ACTGTCACCTACTCATGACAAACTGCCTCCAAGAACATTCATGTGAATGTTTAGCTATCAAACAGT | Db | 2226 | TGAAACAGCTGTGTGAGACTTCAGATACCACTGGAGAGAAATGCTAACCCACCAATTA    |
| Qy | 241  | AAAACATTAAGAGTATAATGAAAGATAGCACGATCTGAGATGGACAAACAGCA              | Qy | 1321 | TTCATTGGACTCTGGAGAAGTTCTCTCAGAGAGCTGTCTGAGATGGACAAACAGCA      |
| Db | 1206 | AAAACATTAAGAGTATAATGAAAGATAGCACGATCTGAGATGGACAAACAGCA              | Db | 2286 | TTCATTGGACTCTGGAGAAGTTCTCTCAGAGATGGACAGCTTGTCAGATGGACAAACAGCA |
| Qy | 301  | AACAAAAATGAAAGTATGACTTTCTCTCAGAAAGAGCTTACAGAATGCTACATTAACCT        | Qy | 1381 | TTAAATCTGCTTGAAATGGCTTAATAGAGACCTGGTGAACACAAAGTCAGTA          |
| Db | 1266 | AACAAAAATGAAAGTATGACTTTCTCTCAGAAAGAGCTTACAGAATGCTACATTAACCT        | Db | 2346 | AAATCTGCTTGAAATGGCTTAATAGAGACCTGGTGAACACAAAGTCAGTA            |
| Db | 1326 | TCCCCGGGGGCTCTCTCAGAAAGAGAGCTTACAGAATGCTACATTAACCT                 | Db | 1441 | AAATCTGCTTGAAATGGCTTAATAGAGACCTGGTGAACACAAAGTCAGTA            |
| Qy | 421  | GTGTGAATGACAACGTCAAATGCTCTGTGGCTGATCTGATACTGGAACTAG                | Qy | 1441 | AAATCTGCTTGAAATGGCTTAATAGAGACCTGGTGAACACAAAGTCAGTA            |
| Db | 1386 | GTGTGAATGACAACGTCAAATGCTCTGTGGCTGATCTGATACTGGAACTAG                | Db | 2406 | AAATCTGACAACCTGGAGAGAACTATAAACAGTAAATGATATTCTGTCAGCACTCTTA    |
| Qy | 481  | GAGACAGCTTATCAAAAGCTAACAGCTATCCCTAGTGTAGCTTATCAGAATC               | Qy | 1501 | ATGTCAGATGAAAAGAGAGAGAAACAAAGCTGAAAGAAATGGCATCG               |
| Db | 1446 | GAGACAGCTTATCAAAAGCTAACAGCTATCCCTAGTGTAGCTTATCAGAATC               | Db | 2466 | ATGTCAGATGAAAAGAGAGAGAAACAAAGCTGAAAGAAATGGCATCG               |
| Db | 1506 | TGTTTCAGCTAGTCTGGATCCACCTCTAGATACGTCCTCTGCTGATCTGATACTGGAACTAG     | Qy | 1561 | ATGATGTGTCATTAATGGAGAACAGAAATGGCTCTTCAACATGTCAG               |
| Qy | 541  | TGTTTCAGCTAGTCTGGATCCACCTCTAGATACGTCCTCTGCTGATCTGATACTGGAACTAG     | Qy | 1561 | ATGATGTGTCATTAATGGAGAACAGAAATGGCTCTTCAACATGTCAG               |
| Db | 601  | CACATTCATATCTCCCACCTTGGAAACATAGCTGGTAACTGGAACTCTAGAATACCTCTCCAGCC  | Db | 2526 | ATGATGTGTCATTAATGGAGAACAGAAATGGCTCTTCAACATGTCAG               |
| Db | 661  | TTCTCCAAACCTCTTAACTCTAGAGCAGTGTGAGATCTCATGGAGCTAAC                 | Qy | 1621 | TTCCTATCTGGATAATCTTTAAGGCCATGTAAATTATAACAGGAACTGATTTA         |
| Db | 1566 | CACATTCATATCTCCCACCTTGGAAACATAGCTGGTAACTGGAACTCTAGAATACCTCTCCAGCC  | Db | 2586 | TTCCTATCTGGATAATCTTTAAGGCCATGTAAATTATAACAGGAACTGATTTA         |
| Db | 1626 | TTCTCCAAACCTCTTAACTCTAGAGCAGTGTGAGATCTCATGGAGCTAAC                 | Qy | 1681 | TTAAACAAAAACACAGATACCTTACAAGGGAGAACTGATTTGATACCACTTGTGTTA     |
| Qy | 721  | CCTACAGTTATGCAATGTTACTGAGAGCCAGATTCTACCTACATGGGCAT                 | Db | 2646 | TTAAACAAAAACACAGATACCTTACAAGGGAGAACTGATTTGATACCACTTGTGTTA     |
| Db | 1686 | CCTACAGTTATGCAATGTTACTGAGAGCCAGATTCTACCTACATGGGCAT                 | Qy | 1741 | AACGAATGTCGGCCAACATCTCAAACACTCTAAAGAAATTGACTCTACATGT          |
| Db | 1685 | TTCTCCAAACCTCTTAACTCTAGAGCAGTGTGAGATCTCATGGAGCTAAC                 | Db | 2706 | AACGAATGTCGGCCAACATCTCAAACACTCTAAAGAAATTGACTCTACATGT          |
| Qy | 781  | TAACTTTGTGTCACCATCGAGATGGCAAGAGCTCTGTTTATATAGGACCTGG               | Qy | 1801 | ATAAGAACTTATGTTGGATACAGATATGAGATATTCACAGAAGATGGTTCAGGC        |
| Db | 1746 | TAACTTTGTGTCACCATCGAGATGGCAAGAGCTCTGTTTATATAGGACCTGG               | Db | 2766 | ATAAGAACTTATGTTGGATACAGATATGAGATATGAGATTCACAGAAGATGGTTCAGGC   |
| Qy | 841  | ATAGGGTAGGCTGCTTCTGGTGGAGCTGAGTACTGGGAACCAAGGATG                   | Qy | 1861 | TGTCAGTGGAGAACATGAGGAGGTGCAAGAGAACAACTCTCAAGGAAATGTCAT        |
| Db | 1806 | ATAGGGTAGGCTGCTTCTGGTGGAGCTGAGTACTGGGAACCAAGGATG                   | Db | 2826 | TGTCAGTGGAGAACATGAGGAGGTGCAAGAGAACAACTCTCAAGGAAATGTCAT        |
| Qy | 901  | CTATGTCAGAACACGGGGCATTTCTCAACTGTCCTATTGGAAATTCAGAA                 | Qy | 1921 | ACAGAGAGTTCTGTGATTTATCTCTGGTCATCTGGTAGTGCAGGAGTGT             |
| Db | 1866 | CTATGTCAGAACACGGGGCATTTCTCAACTGTCCTATTGGAAATTCAGAA                 | Db | 2886 | ACAGAGAGTTCTGTGATTTATCTCTGGTCATCTGGTAGTGCAGGAGTGT             |
| Qy | 961  | CTCTGAGGTTAGCTTCAATCTGGCATGCGAGAACATGCACTGGAACT                    | Qy | 1981 | CCCCCTCTCTAGGAAATGCCCTATTGAGGTATATCAAGGTTCTGTCAT              |
| Db | 1926 | CTCTGAGGTTAGCTTCAATCTGGCATGCGAGAACATGCACTGGAACT                    | Db | 2946 | CCCCCTCTCTAGGAAATGCCCTATTGAGGTATATCAAGGTTCTGTCAT              |
| Qy | 1021 | TTATGACTGGCCATCTGAGTCTGGCTCAGCTGGAGCTGCTGGTT                       | Qy | 2041 | TCCTCTCTAGGAAATGCCCTATTGAGGTATATCAAGGTTCTGTCAT                |
| Db | 1986 | TTATGACTGGCCATCTGAGTCTGGCTCAGCTGGAGCTGCTGGTT                       | Db | 3006 | TCCTCTCTAGGAAATGCCCTATTGAGGTATATCAAGGTTCTGTCAT                |
| Qy | 1081 | ATATGTTGGTGCACATGATGATGTCATGCTTGTGAGGTTCTGAGGTT                    | Qy | 2101 | TCAGTCTAGTGTGCTGGTACTATAATCTGTTCTGAAAGATGGTACATA              |
| Db | 2046 | ATATGTTGGTGCACATGATGATGTCATGCTTGTGAGGTTCTGAGGTT                    | Db | 3066 | TCAGTCTAGTGTGCTGGTACTATAATCTGTTCTGAAAGATGGTACATA              |
| Qy | 1141 | GGGAATCTGGAGATGTCATGGGTAGCATGCCAACGGTTCTGAGGTTCT                   | Qy | 2161 | TCAGTCTAGTGTGCTGGTACTATAATCTGTTCTGAAAGATGGTACATA              |
| Db | 1200 | GGGAATCTGGAGATGTCATGGGTAGCATGCCAACGGTTCTGAGGTTCT                   | Db | 3126 | TCAGTCTAGTGTGCTGGTACTATAATCTGTTCTGAAAGATGGTACATA              |
| Qy |      |  | Qy | 2221 | TCAGTCTAGTGTGCTGGTACTATAATCTGTTCTGAAAGATGGTACATA              |
| Db |      |  | Qy | 3186 | TCAGTCTAGTGTGCTGGTACTATAATCTGTTCTGAAAGATGGTACATA              |



Qy 1381 TAAATCTGCCCTGGAAATGGGTTTATAGAGACCTGTGAAACAAACAGTCAGTA 1440  
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 Qy 1681 TTAAACAAAAACACAGTACCTTACGGGAGAGACT3ATTGATACATTGGTA 1740  
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 Qy 1801 ATAGAACTTATGTTGATAAGAATGAGATATCCNACAGAGATGTTAGTCAGTC 1860  
 Db 2986 ATAGAACTTATGTTGATAAGAATGAGATATCCNACAGAGATGTTAGTCAGTC 3045  
 Qy 1861 TGTCACTGGAGAACATGAGGGTGCAGAGAGAGACTGTGAAAGTGTGATGG 1920  
 Db 3046 TGTCACTGGAGAACATGAGGGTGCAGAGAGAGACTGTGAAAGTGTGATGG 3105  
 Qy 1921 ACAAAAGAGTTCTGTGTATTATCTCTGTGGTCACTGTGAGACTGTGAAAGTGTG 1980  
 Db 3106 ACAAAAGAGTTCTGTGTATTATCTCTGTGGTCACTGTGAGACTGTGAAAGTGTG 3165  
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 Db 3166 CCCCTCTCTAGAAAAGCCATTGCAAGGAGATCTGAGGAGCTGTAAAGTGTG 3225  
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 Db 3286 GTTGAAACACTGAAAGCCAACTAAAGTAAAGGGATTATGTTTCAATTAGACA 3345  
 Qy 2161 TTCAATGTTCTAGTCGCTTGGTACTATAATCTGTTCTGAAAGATGGTATCTA 2220  
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 Db 3706 TAAGTGTAAAGAAAAAAAGAAAAAAAGAAAAAAAGAAAAAAAGAAAAAA 3732

RESULT 5  
 US-10-207-655-199  
 ; Sequence 199, Application US/10207655  
 ; Publication No. US20030118592A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Lebedetter, Jeffrey A.  
 ; APPLICANT: Hayden-Lebedetter, Martha S.  
 ; TITLE OF INVENTION: BINDING DOMAIN-IMMUNOGLOBULIN FUSION PROTEINS  
 ; FILE REFERENCE: 39069-401C1  
 ; CURRENT APPLICATION NUMBER: US/10/207,655  
 ; CURRENT FILING DATE: 2002-07-25  
 ; NUMBER OF SEQ ID NOS: 426  
 ; SOFTWARE: PatentIn version 3.0  
 ; SEQ ID NO: 199  
 ; LENGTH: 2531  
 ; TYPE: DNA  
 ; ORGANISM: Homo sapiens  
 ; US-10-207-655-199

Query Match 97.8%; Score 2531; DB 14; Length 2531;  
 Best Local Similarity 100.0%; Pred. No. 0; Mismatches 0; Indels 0; Gaps 0;  
 Matches 2531; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

| Qy | 1   | TCTTAAGTAGTATCTTGGAAATTCAGAGAGATACTCATCTACCTGAAATAACTGAGAT   | 60  |
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| Db | 1   | TCTTAAGTAGTATCTTGGAAATTCAGAGAGATACTCATCTACCTGAAATAACTGAGAT   | 60  |
| Qy | 61  | AAATCCAGTAAGGAAGTGTGAAATTCAGAGAGATACTCATCTACCTGAAATAACTGAGAT | 120 |
| Db | 61  | AAATCCAGTAAGGAAGTGTGAAATTCAGAGAGATACTCATCTACCTGAAATAACTGAGAT | 120 |
| Qy | 121 | TGTTAAATCTTGTCTGAGAAATTCTATGAGCTTGTGAAATTCAGAGAGATCTGAAACAGC | 180 |
| Db | 121 | TGTTAAATCTTGTCTGAGAAATTCTATGAGCTTGTGAAATTCAGAGAGATCTGAAACAGC | 180 |
| Qy | 181 | ACTGTCACCTACTCATGACAAACTGCTTCCAAGACTTTCCAGTCCCCTGTAC         | 240 |
| Db | 181 | ACTGTCACCTACTCATGACAAACTGCTTCCAAGACTTTCCAGTCCCCTGTAC         | 240 |
| Qy | 241 | AAACATTAAGAGATAATGGAGATAGCAGCTGAGACTGCTCCAAAGACTTTCAGGTCAT   | 300 |
| Db | 241 | AAACATTAAGAGATAATGGAGATAGCAGCTGAGACTGCTCCAAAGACTTTCAGGTCAT   | 300 |
| Qy | 301 | AACAAAATGAGGTATGACTTTCTGTGAACTCTACAGAGTGTCTACATTCATT         | 360 |
| Db | 301 | AACAAAATGAGGTATGACTTTCTGTGAACTCTACAGAGTGTCTACATTCATT         | 360 |
| Qy | 361 | TCCCCGCCGGGGTGCCTGTGCTGAGAAGGGACTGTGCTGCTGTTTATTATCTG        | 420 |
| Db | 361 | TCCCCGCCGGGGTGCCTGTGCTGAGAAGGGACTGTGCTGCTGCTGTTTATTATCTG     | 420 |
| Qy | 421 | GTGTTGAATGAGGCTAACTCTCTGTTGCTGCTGCTGCTGCTGCTGCTGCTGCTG       | 480 |
| Db | 421 | GTGTTGAATGAGGCTAACTCTCTGTTGCTGCTGCTGCTGCTGCTGCTGCTGCTG       | 480 |
| Qy | 481 | GAGACAGTCCTATCAAGCTAAACAGCTATCTGCTGCTGCTGCTGCTGCTGCTG        | 540 |
| Db | 481 | GAGACAGTCCTATCAAGCTAAACAGCTATCTGCTGCTGCTGCTGCTGCTGCTG        | 540 |
| Qy | 541 | TGTTTCAGCTAGTCTGGGATCACCCTAGAGATACTGCTCCATGAGAACAGTTTG       | 600 |
| Db | 541 | TGTTTCAGCTAGTCTGGGATCACCCTAGAGATACTGCTCCATGAGAACAGTTTG       | 600 |
| Qy | 601 | CACATCATTATCCTCACCTGGAACTAGTAGCTGTTAGTGTGCTTACTCCAGCC        | 660 |

Db 601 CACATTCATTATCTCCACCTGGACATACTGATGATACCATTTGGTTA 1681  
 Qy 661 TTCCTCCAACCCCTTAATTCTAGAGCAGTGAAGACATCTCTCATCGAGACTAAC 1741  
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 Qy 781 TAACTTTGTACCATCAGAATTGCAAGAGCTCGTTTATATAGGACCTGGAG 1860  
 Db 781 TAACTTTGTACCATCAGAATTGCAAGAGCTCGTTTATATAGGACCTGGAG 1860  
 Qy 841 ATAGGGTAGCTGCTTGGCTGGAGCTAGTAATCTGGACCTGGAG 1861  
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 Db 901 CTATCTCGAACACCGGAGGATTCCAACCTGCCATTGGAAATTCTAGAA 1921  
 Qy 961 CTCTGAGGTTAGCATTCAATCTGAGCATGCAGAACACNTGGAGCTGAATGAGAC 1980  
 Db 961 CTCTGAGGTTAGCATTCAATCTGAGCATGCAGAACACNTGGAGCTGAATGAGAC 1980  
 Qy 1021 TTACCTACTGGCCATCTAGTGTCCGTTAGCTGAGCTGAGGTT 1980  
 Db 1021 TTACCTACTGGCCATCTAGTGTCCGTTAGCTGAGCTGAGGTT 1980  
 Qy 1081 ATTATGTTGGCATCTAGTGTCCGTTAGCTGAGCTGAGGTT 1980  
 Db 1081 ATTATGTTGGCATCTAGTGTCCGTTAGCTGAGCTGAGGTT 1980  
 Qy 1141 GGGATCTGGAGATCCATGGGTTGAAACATGCCAAGTGCACTGAGCTGAGGTT 1980  
 Db 1141 GGGATCTGGAGATCCATGGGTTGAAACATGCCAAGTGCACTGAGCTGAGGTT 1980  
 Qy 1201 TGATAGAATGAAAGCCAAAGAGTTGTGAGBATTCAAGGTAGATACCTCATTC 2040  
 Db 1201 TGATAGAATGAAAGCCAAAGAGTTGTGAGBATTCAAGGTAGATACCTCATTC 2040  
 Qy 1261 TTGACAGCTGTCAACTCAGATACCCTGAGAAGATCTGACCCCAAATT 2100  
 Db 1261 TTGACAGCTGTCAACTCAGATACCCTGAGAAGATCTGACCCCAAATT 2100  
 Qy 1321 TTCAATTGGACTCTGGAAATGGCTTATAGAGACCTGGTAAACACACAGTCAGTA 2160  
 Db 1321 TTCAATTGGACTCTGGAAATGGCTTATAGAGACCTGGTAAACACACAGTCAGTA 2160  
 Qy 1381 TAAATCTGACAACCTGGAGAACTATTAACAGTTATAGAGCTGGTAAACACACAGTCAGTA 2220  
 Db 1381 TAAATCTGACAACCTGGAGAACTATTAACAGTTATAGAGCTGGTAAACACACAGTCAGTA 2220  
 Qy 1441 AAATCTGCTGGCTGGAAATGGCTTATAGAGCTGGTAAACACACAGTCAGTA 2280  
 Db 1441 AAATCTGCTGGCTGGAAATGGCTTATAGAGCTGGTAAACACACAGTCAGTA 2280  
 Qy 1501 ATGCTGAGATGAAAGAGAGGAGGAGAAGAACANGCTGAGAATGGCATCAG 2340  
 Db 1501 ATGCTGAGATGAAAGAGAGGAGGAGAAGAACANGCTGAGAATGGCATCAG 2340  
 Qy 1561 ATGATTGCTTAAATTGGAGAGACAGATGGCTCTTCAACAACTGAGCTGTC 2400  
 Db 1561 ATGATTGCTTAAATTGGAGAGACAGATGGCTCTTCAACAACTGAGCTGTC 2400  
 Qy 1621 TTCCATCTGGATAATTTAAAGCCAACTGTTAAACAGGAACTGAGCTGAGATA 2460  
 Db 1621 TTCCATCTGGATAATTTAAAGCCAACTGTTAAACAGGAACTGAGCTGAGATA 2460  
 Qy 1681 TAAACAAAAACACAGAACACTGAGACTATGATGATGCTGAGCTCAA 2520  
 Db 1681 TAAACAAAAACACAGAACACTGAGACTATGATGATGCTGAGCTCAA 2520

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RESULT 6  
 US-10-153-668-337  
 ; Sequence 337, Application US/10153668  
 ; Publication No. US20030092616A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: HONDA, Goichi  
 ; APPLICANT: MATSUDA, Akio  
 ; APPLICANT: MURAMATSU, Shuji  
 ; APPLICANT: ISHIZAWA, Kenya  
 ; TITLE OF INVENTION: STAT6 Activating Gene  
 ; FILE REFERENCE: 1254-0207P  
 ; CURRENT APPLICATION NUMBER: US/10/153,668  
 ; CURRENT FILING DATE: 2002-05-24  
 ; PRIORITY APPLICATION NUMBER: US 60/293,172

PRIOR FILING DATE: 2001-05-25  
PRIOR APPLICATION NUMBER: US 60/316,031  
PRIOR FILING DATE: 2001-08-31  
PRIOR APPLICATION NUMBER: US 60/328,403  
PRIOR FILING DATE: 2001-10-12  
PRIOR APPLICATION NUMBER: JP 2001-157043  
PRIOR FILING DATE: 2001-05-25  
PRIOR APPLICATION NUMBER: JP 2001-260681  
PRIOR FILING DATE: 2001-08-30  
PRIOR APPLICATION NUMBER: JP 2001-311175  
PRIOR FILING DATE: 2001-10-10  
NUMBER OF SEQ ID NOS: 488  
SOFTWARE: PatentIn Ver. 2.0  
SEQ ID NO 337  
LENGTH: 3496  
TYPE: DNA  
ORGANISM: Homo sapiens  
FEATURE:  
NAME/KEY: CDS  
LOCATION: (1160)..(3013)  
S-10-153-668-337  
Query Match 97.8%; Score 2531; DB 14; Length 3496;  
Best Local Similarity 100.0%; Pred. No. 0; Mismatches 0;  
Matches 2531; Conservative 0; Indels 0; Gaps 0;  
1 TCTTAACTGATCTGGAAATTAGAGAGATACATCCTTACCTGAATATAACTGAGAT 60  
966 TCTTAAGTAGTATCTTGAAATTAGAGAGATACATCCTTACCTGAATATAACTGAGAT 1025  
61 AAATCCAGTAAGAAGAAGTGTAGTAAATTCTACATAGAGTTATCATGAAAGAACATTCAATGGAAGT 120  
1026 AAATCCAGTAAGAAGAAGTGTAGTAAATTCTACATGAAAGAACATTCAATGGAAGT 1085  
121 TGGTAAATCTTAGTCATGTCATGGAAGAACATTCAATGGAAGT 180  
181 ACTGTGCACTACTCATGCACAAACTGCCCAGAACGTTTCCAGGTCTCGTCTCG 120  
Y b 1086 TGGTAAATCTTAGTCATGTCATGGAAGAACATTCAATGGAAGT 1145  
181 ACTGTGCACTACTCATGCACAAACTGCCCAGAACGTTTCCAGGTCTCGTCTCG 240  
Y b 1146 ACTGTGCACTACTCATGCACAAACTGCCCAGAACGTTTCCAGGTCTCGTCTCG 1205  
241 AAACATTAAGAGTAAATGGAGATGACGACGATCTGTGAGATGGACAAACAGCA 300  
1206 AAACATTAAGAGTAAATGGAGATGACGACGATCTGTGAGATGGACAAACAGCA 1265  
301 AACAAAAATGAAAGPATGACTTTCCTGTGACTCTGTCAGAACTGTCAGAACATTCACTT 360  
1266 AACAAAAATGAAAGPATGACTTTCCTGTGACTCTGTCAGAACATTCACTT 1325  
361 TCCCCGGGGGGGTCCTGTCTCAGAAAGAGGACTCTGCTCGTGTGGTTTATTAPCTG 420  
1326 TCCCCGGGGGGGTCCTGTCTCAGAAAGAGGACTCTGCTCGTGTGGTTTATTAPCTG 1385  
421 GTGTGAATGACAAGTCAAATGGCTCTGTGTGGCTGATGCTGGAAACTGAAACTAG 480  
Y b 1386 GTGTGAATGACAAGTCAAATGGCTCTGTGTGGCTGATGCTGGAAACTGAAACTAG 1445  
481 GAGACAGTCCTATTCAAAGCATAAACAGTATACCTCTAGCTGAGCTTACATC 540  
1446 GAGACAGTCCTATTCAAAGCATAAACAGTATACCTCTAGCTGAGCTTACATC 1505  
541 TGGTTCAGTCAGTCTGGATCCACCTCTAGAAACTGAGCTTACATC 600  
1506 TGGTTCAGTCAGTCTGGATCCACCTCTAGAAACTGAGCTTACATC 1505  
601 CACATTCATTCTCCACCTCTAGAAACTGAGCTTACATC 660  
1566 CACATTCATTCTCCACCTCTAGAAACTGAGCTTACATC 1625  
721 CCTACAGTTATGCAATGAGTACTGAAGAACCCAGATTCTTACCATATGGCCAT 780  
Db 1686 CCTACAGTTATGCAATGAGTACTGAAGAACCCAGATTCTTACCATATGGCCAT 1745  
Db 781 TAACTTTGTGACCTCGAGAATGGAGCTGGTTTATATAGAACCTGGAG 840  
Db 1746 TAACTTTGTGACCTCGAGAATGGAGAGCTGGTTTATATAGAACCTGGAG 1805  
Qy 841 ATAGGTTAGCTGCTTCCCTGTGGAGCTAGTACTGGAACCAAGGATGATG 900  
Db 1806 ATAGGTTAGCTGCTTCCCTGTGGAGAGCTGGTTTATATAGAACCTGGAG 1865  
Qy 901 CTATGTCAGAACACGGGGCATTTCCAACCTGTCATTTGGAAATTCTTAGAA 960  
Db 1866 CTATGTCAGAACACGGGGCATTTCCAACCTGTCATTTGGAAATTCTTAGAA 1925  
Db 1986 TTATGACTGCCATCTAGTGTCCAGTCAGCTGAGATGAGAACAT 1020  
Db 1926 CTCTGAGGTTAGCATTCATGCAATCTGAGCTGAGATGAGAACAT 1985  
Qy 1021 TTATGACTGCCATCTAGTGTCCAGTCAGCTGAGAACATGAGAACAT 1080  
Db 2046 ATTATGTTGGTCGCAATGATGATGTCAGTCAGCTGAGCTGAGATGAGAACAT 2105  
Qy 1141 GGGAACTGGAGATGATCCATGGGAGAACATGCCAGTGGTTCCAGGTGTGAGTCT 1200  
Db 2106 GGGAACTGGAGATGATCCATGGGAGAACATGCCAGTGGTTCCAGGTGTGAGTCT 2165  
Qy 1201 TGATAGAGATGAAAGCCAGAGTTTCCAGGTCTCGTAC 1260  
Db 2166 TGATAGAGATGAAAGCCAGAGTTTCCAGGTCTCGTAC 2225  
Qy 1261 TTGACACGGTGTGACTTCAGATACCAGAGAAATGTCACCCACCAATA 1320  
Db 2226 TTGACACGGTGTGACTTCAGATACCAGAGAAATGTCACCCACCAATA 2285  
Qy 1321 TCATTTGGACCTGGAAAGTCTCAGAGATGCTGTCTCGTCAAGGTTATCCATCTC 1380  
Db 2286 TTCAATTGGACCTGGAAAGTCTCAGAGATGCTGTCTCGTCAAGGTTATCCATCTC 2345  
Qy 1381 TAAATCTGCCTTGGAAATGGCTTATAGAGACCTGGTGAACMACACAGTCAAAGTA 1440  
Db 2346 TAAATCTGCCTTGGAAATGGCTTATAGAGACCTGGTGAACMACACAGTCAAAGTA 2405  
Qy 1441 AAATCTGACAACCTGGAGAACTATTAACAGTATGATGATATGTCAGCACTCTAA 1500  
Db 2406 AAATCTGACAACCTGGAGAACTATTAACAGTATGATGATATGTCAGCACTCTAA 2465  
Qy 1501 ATGTGAAGATGAAAAAGAGGAGGAGGAGGAAACACAGTGTGAGAAATGGCATCG 1560  
Db 2466 ATGTGAAGATGAAAAAGAGGAGGAGGAGGAGGAAACACAGTGTGAGAAATGGCATCG 2525  
Qy 1561 ATGATTGTCTGTTAAGGCAATGTAATTAAACAGGAACTGATGTCAGTGTGTC 1620  
Db 2526 ATGATTGTCTGTTAAGGCAATGTAATTAAACAGGAACTGATGTCAGTGTGTC 2585  
Qy 1621 TTCCATCTGGATAATCTTAAAGGCAATGTAATTAAACAGGAACTGATGTCAGTGTGTC 1680  
Db 2586 TTCCATCTGGATAATCTTAAAGGCAATGTAATTAAACAGGAACTGATGTCAGTGTGTC 2645  
Qy 1681 TTAAACAAAACACAGAACATCTTAAAGGCAATGTAATTAAACAGGAACTGATGTCAGTGTGTC 1740  
Db 2646 TTAAACAAAACACAGAACATCTTAAAGGCAATGTAATTAAACAGGAACTGATGTCAGTGTGTC 2705  
Qy 1741 AAGGAATGCTGGGGCAACATCTTAAAGGAACTGCTAAAGGAAATGACTCTACATGT 1800  
Db 2706 AAGGAATGCTGGGGCAACATCTTAAAGGAACTGCTAAAGGAAATGACTCTACATGT 2765

Qy 1801 ATAAGAAGCTTATGGGATAAGAATGAACTTCAACAGAGAGTGTTCAGGC 1860 ; EARLIER APPLICATION NUMBER: 08/511,485  
Db 2766 ATAAGAAGCTTATGGGATAAGAATGAACTTCAACAGAGAGTGTTCAGGC 2825 ; EARLIER FILING DATE: 1995-08-04  
; NUMBER OF SEQ ID NOS: 45  
; SOFTWARE: FastSEQ for Windows Version 3.0  
; SEQ ID NO 7  
; LENGTH: 2580  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
; FEATURE:  
; NAME/KEY: variation  
; LOCATION: (2412)..(2412)  
; OTHER INFORMATION: N may be any nucleotide  
; US-09-2011-936-7

Query Match 97.1%; Score 2514.8; DB 10; length 2580;  
Best Local Similarity 99.4%; Pred. No. 0; Mismatches 14; Indels 0; Gaps 0;  
Matches 2522; Conservative 0; Other Information: N may be any nucleotide

Qy 1 TCTAAGTAGTATCTTGAAGAACATTCAAGGAAATTCTACATAGCTCATCTACCTGAAATAACTGAGAT 60  
Db 44 TCTAAGTAGTATCTTGAAGAACATTCAAGGAAATTCTACATAGCTCATCTACCTGAAATAACTGAGAT 103  
Qy 61 AATCCAGTAAGAAAGTGTAAATTCTACATAGCTCATCTACCTGAAATAACTGAGAT 60  
Db 3066 GTTGACACTTGAAAGCCTTAAGAAATAAGTCTATTTAACCTGAAATAAGGAAATTGAGTTTCATAGTACA 3125  
Qy 2101 GTGAAACACTTGAAAGCCTTAAGAAATAAGTCTATTTAACCTGAAATAAGGAAATTGAGTTTCATAGTACA 2100  
Db 3006 TTCTCTCTTAAGAAATAAGTCTATTTAACCTGAAATAAGGAAATTGAGTTTCATAGTACA 3065  
Qy 2161 TTCTCTCTTAGTCTGCTTGTACTATAATCTGTTCTGAAAGTGTATCATATA 2220  
Db 3126 TTCTCTCTTAGTCTGCTTGTACTATAATCTGTTCTGAAAGTGTATCATATA 3185  
Qy 2221 TTAATCTTAATCTGTTCTTACAAAGGAGATTCTGTTCTGACTATATTGAT 2280  
Db 3186 TTAATCTTAATCTGTTCTTACAAAGGAGATTCTGTTCTGACTATATTGAT 3245  
Qy 2281 GTATGTTACCTAAGGGAGTAGTGTACTGTTCTGAGGTTACTG 2340  
Db 3246 GTATGTTACCTAAGGGAGTAGTGTACTGTTCTGAGGTTACTG 3305  
Qy 2341 ATTGTTGTTCTCAGAAAGCTTCAAGAACTTCAATTAATGTTAGTGTAGAAGACTGAAA 2400  
Db 3306 ATTGTTGTTCTCAGAAAGCTTCAAGAACTTCAATTAATGTTAGTGTAGAAGACTGAAA 3365  
Qy 2401 CCAGGAACCTGGGTTCTCAGACTTCAAGCTTCAAGAACTTCAATTAATGTTAGTGTAGAAGACTGAAA 2460  
Db 3366 CCAGGAACCTGGGTTCTCAGACTTCAAGCTTCAAGAACTTCAATTAATGTTAGTGTAGAAGACTGAAA 3425  
Qy 2461 GTGTTTAATAAGGTTCTCTTCTTCTCAGGTTCTGAGAACATCTCAA 2520  
Db 3426 GTGTTTAATAAGGTTCTCTTCTCAGGTTCTGAGAACATCTCAA 3485  
Qy 2521 TAAGGCTTT 2531  
Db 3486 TAAGGCTTT 3496

RESULT 7  
US-09-2011-936-7  
; Sequence 7, Application US/09201936  
; Publication No. US20020187966A1  
; GENERAL INFORMATION:  
; APPLICANT: Korneluk, Robert G.  
; APPLICANT: Mackenzie, Alexander E.  
; APPLICANT: Baird, Stephen  
; APPLICANT: Liston, Peter  
; TITLE OF INVENTION: MAMMALIAN IAP GENE FAMILY, PRIMERS,  
; TITLE OF INVENTION: PROBES, AND DETECTION METHODS  
; PILE REFERENCE: 07891/003003  
; CURRENT APPLICATION NUMBER: US/09/201,936  
; CURRENT FILING DATE: 1998-12-01  
; EARLIER APPLICATION NUMBER: 09/011,356  
; EARLIER FILING DATE: 1998-02-04  
; EARLIER APPLICATION NUMBER: PCT/IB96/01022  
; EARLIER FILING DATE: 1996-08-05  
; EARLIER APPLICATION NUMBER: 08/576,956  
; EARLIER FILING DATE: 1995-12-22

Qy 541 TGTTTCAGCTGCTGGGATCCCTTAAGATACTGCTCCAATGAGAACAGTTG 600  
Db 584 TGTTTCAGCTGCTGGGATCCCTTAAGATACTGCTCCAATGAGAACAGTTG 643  
Qy 601 CACATCATATCTCCACCTTGGACATAGTACGTTCTACTCCAGCC 660  
Db 644 CACATCATATCTCCACCTTGGACATAGTACGTTCTACTCCAGCC 703  
Qy 661 TTCTCCAAACCTCTTAATCTTCTAGGAGCTGAGACATCTCTGAGGAGCTAAC 720  
Db 704 TTCTCCAAACCTCTTAATCTTCTAGGAGCTGAGACATCTCTGAGGAGCTAAC 763  
Qy 721 CCTACAGTATGAGTACTGAGAGAGCTTCACTACATATGCGCAT 780  
Db 764 CCTACAGTATGAGTACTGAGAGAGCTTCACTACATATGCGCAT 823  
Qy 781 TAACTTTGTCACCATCAGAATGGCAAGAGCTGGTTTATTAGGAGCTGGAG 840  
Db 824 TAACTTTGTCACCATCAGAATGGCAAGAGCTGGTTTATTAGGAGCTGGAG 883

Qy 841 ATAGGGTACCTGTTGCCCTGGGGAAACTCAGTAATCTGGAACCAAGGATG 900  
 Db 884 ATAGGTAGCCCTGCTTCCTGTTGGAAGCTCAGTAATCTGGAACCAAGGATG 943  
 Qy 901 CTATGTCAGAACCGGGGCAATTCCAACTGTCATTITGAAATTCTAGA 960  
 Db 944 CTATGTCAGAACCGGGGCAATTCCAACTGTCATTITGAAATTCTAGA 1003  
 Qy 961 CTCTGAGGTTAGCATTTCAATCTGAGATGCAGACATGCGCTGAGACAT 1020  
 Db 1004 CTCTGAGGTTAGCATTTCAATCTGAGATGCAGACATGCGCTGAGACAT 1063  
 Qy 1021 TTATGTAATCTGCCATCTAGTGTCCAGTCAGCTGAGATGAGACAT 1080  
 Db 1064 TTATGTAATCTGCCATCTAGTGTCCAGTCAGCTGAGATGAGACAT 1123  
 Qy 1081 ATTATGTCGCTGCAATCTGATGTCATACTGAGATGCTTGTGAGGTT 1140  
 Db 1124 ATTATGTCGCTGCAATCTGATGTCATACTGAGATGCTTGTGAGGTT 1183  
 Qy 1141 GGGATCTGGAGATGATCCATGGTAGAACATGCCAAGTGTTCCAAAGGTGAGTCT 1200  
 Db 1184 GGGATCTGGAGATGATCCATGGTAGAACATGCCAAGTGTTCCAAAGGTGAGTCT 1243  
 Qy 1201 TGATACGATGAAAGGCCAGAGTTGTGATGAGATCAGATACCTGAGAATCTGAGTCT 1260  
 Db 1244 TGATACGATGAAAGGCCAGAGTTGTGATGAGATCAGATACCTGAGAATCTGAGTCT 1303  
 Qy 1261 TTGAAACGGTGTGTCACTCAGATACCTGAGAATCTGAGAATCTGAGTCT 1320  
 Db 1304 TTGAAACGGTGTGTCACTCAGATACCTGAGAATCTGAGAATCTGAGTCT 1363  
 Qy 1321 TTCAATTGCGCTTGGAATGGCTCTAGAGATGCTGAGATGATGATGACCTGAG 1380  
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 Qy 1441 AAATCTGACAACCTGGAGAGAACTATAAACAGTAACTGATGATGACCTGAG 1500  
 Db 1484 AAATCTGACAACCTGGAGAGAACTATAAACAGTAACTGATGATGACCTGAG 1543  
 Qy 1501 ATGCTGAGAGATGAAAAGAGAGGAGGAGAGAAACAGCTGAAGAAATGGCATCG 1560  
 Db 1544 ATGCTGAGAGATGAAAAGAGAGGAGGAGAAACAGCTGAAGAAATGGCATCG 1603  
 Qy 1561 ATGATTTGCTTAAATCTGGAGAACAGATGGCTCTCTTCAACAAATGAGATGTC 1620  
 Db 1604 ATGATTTGCTTAAATCTGGAGAACAGATGGCTCTCTTCAACAAATGAGATGTC 1663  
 Qy 1621 TTCCCTATCTGGATAATCTTTAAAGCCAATGTAATTAACAGAACATGATTA 1680  
 Db 1664 TTCCCTATCTGGATAATCTTTAAAGCCAATGTAATTAACAGAACATGATTA 1723  
 Qy 1681 TAAACCAAACACAGAACCTTACCTAACGGAGAACATGTTGATCATTGCTA 1740  
 Db 1724 TAAACCAAACACAGAACCTTACCTAACGGAGAACATGTTGATCATTGCTA 1783  
 Qy 1741 AAGGAATCTGCGGCCACATCTCAAACACTGTCATAAAAGATGACTCTACATGT 1800  
 Db 1784 AAGGAATCTGCGGCCACATCTCAAACACTGTCATAAAAGATGACTCTACATGT 1843  
 Qy 1801 ATARGAACTTATGTCGATAGAATGAGATATTCACAGAAGATGTTCAAGTC 1860  
 Db 1844 ATARGAACTTATGTCGATAGAATGAGATATTCACAGAAGATGTTCAAGTC 1903  
 Qy 1861 TGTCACTGGAGAACAAATGAGGAGTTCAGAAGAAGAACATGTCAGAAGTGT 1920  
 Db 1904 TGTCACTGGAGAACAAATGAGGAGTTCAGAAGAAGAACATGTCAGAAGTGT 1963

RESULT <sup>8</sup>

US-08-464-588-1  
 ; Sequence 1, Application US/08464588  
 ; Publication No. US20030073159A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: HE, ET AL.  
 ; TITLE OF INVENTION: Human Inhibitor of Apoptosis Gene 1  
 ; NUMBER OF SEQUENCES: 8  
 ; CORRESPONDENCE ADDRESS:  
 ; ADDRESSEE: CARELLA, BYRNE, BAIN, GILFILLAN,  
 ; STREET: 6 BECKER FARM ROAD  
 ; CITY: ROSELAND  
 ; STATE: NEW JERSEY  
 ; COUNTRY: USA  
 ; ZIP: 07068

COMPUTER READABLE FORM:  
 COMPUTER: IBM PS/2  
 OPERATING SYSTEM: MS-DOS  
 SOFTWARE: WORD PERFECT 5.1  
 CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: US/08/464,588  
 FILING DATE: June 5, 1995  
 CLASSIFICATION: 514  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: PCT/US95/05922  
 FILING DATE: 11 MAY 1995

1921 ACAAGAAGTTCTGTTGATTTATCTGTCGTCATCTGGACTATGCCAGGATGTG 1980  
 ;  
 1964 ACAGAAGTTCTGTTGATTTATCTGTCGTCATCTGGACTATGCCAGGATGTG 2023  
 ;  
 1981 CCCCTCTCTAAAGAAATGCCCTATTGCAAGGGTTAATCAAGGTTACTGTCGTCAT 2040  
 ;  
 2024 CCCCTCTCTAAAGAAATGCCCTATTGCAAGGGTTAATCAAGGTTACTGTCGTCAT 2083  
 ;  
 2041 TTCTCTCTAAAGAAATAGCTATATTACCTGCATAAAGGTTAAATT 2100  
 ;  
 2084 TTCTCTCTAAAGAAATAGCTATATTACCTGCATAAAGGTTAAATT 2143  
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 2101 GTGAAACCTGAGCACTMAAGTAAAGGAAATTGAGTTTCAATTAGTACA 2160  
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 2144 GTGAAACCTGAGCACTMAAGTAAAGGAAATTGAGTTTCAATTAGTACA 2203  
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 2204 TTGATGTTCTAGCTGCTGTTGAGCTTAAGTAAAGGAAATTGAGTTTCAATTAGTACA 2263  
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 2221 TTAACTCTATCTGTTTACAGGGAGATTGTTGGTCACTATATCTGTTCTGAAAGGTTCTGATA 2280  
 ;  
 2264 TTAACTCTATCTGTTTACAGGGAGATTGTTGGTCACTATATCTGTTCTGATA 2323  
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 2281 GTATGTCACCTAAGGAGTAGCTGACTGCTCTGTTGAGATCTGAGTCT 2340  
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 2324 GTATGTCACCTAAGGAGTAGCTGACTGCTCTGAGATCTGAGTCT 2383  
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 2341 ATTGTTGTCCTCTGAGAAGCTGTTGATGATGATGACCTGAG 2400  
 ;  
 2384 ATTGTTGTCCTCTGAGAAGCTGTTGATGATGACCTGAG 2443  
 ;  
 2401 CCAGGAACTCTGGAGTTCAGAGTTGTCAGTCTGTTGAGAACTGGAA 2460  
 ;  
 2444 CCAGGAACTCTGGAGTTCAGAGTTGTCAGTCTGTTGAGAACTGGAA 2503  
 ;  
 2461 GTGTTAAATAGGATTCTCTTATTCCTCCCTAGTTGTGAGAACATCTCAA 2520  
 ;  
 2504 GTGTTAAATAGGATTCTCTTATTCCTCCCTAGTTGTGAGAACATCTCAA 2563  
 ;  
 2521 TAAGTGTAAAGA 2536  
 ;  
 2564 TAAGTGTAAAGA 2579

## ATTORNEY/AGENT INFORMATION:

NAME: FERRARO, GREGORY D.

REGISTRATION NUMBER: 36 134

REFERENCE/DOCKET NUMBER: 325800-387

TELECOMMUNICATION INFORMATION:

TELEPHONE: 201-994-1700

TELEFAX: 201-994-1744

INFORMATION FOR SEQ ID NO: 1:

SEQUENCE CHARACTERISTICS:

LENGTH: 1435 BASE PAIRS

TYPE: NUCLEIC ACID

STRANDEDNESS: SINGLE

TOPOLOGY: LINEAR

MOLECULE TYPE: cDNA

US-08-464-588-1

Query Match 55.2%; Score 1430.2; DB 8; Length 1435;  
 Best Local Similarity 99.8%; Pred. No. 2.5e-291;  
 Matches 1432; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 726 AGTTATGCAATGAGTACTCTCAAAGAACCCAGATTCTTACCTACCATATGGCCATAACT 785  
 Db 1 AGTTATGCAATGAGTACTCTCAAAGAACCCAGATTCTTACCTACCATATGGCCATAACC 60

Qy 786 TTTTGTCACCATCAGAATGGCAAGAGCTGGTTTAAATATAGACCTGGAGATAG 845  
 Db 61 TTTTGTCACCATCAGAATGGCAAGAGCTGGTTTAAATATAGACCTGGAGATAG 120

Qy 846 GTAGCCCTCTTGCCTGCGTGGAAAGCTCAGTACTGGAAACCAAAGGTGATGCTG 905  
 Db 121 GTAGCCCTGCTTGCCTGCGTGGAAAGCTCAGTACTGGAAACCAAAGGTGATGCTG 180

Qy 906 TCAGAACCCCCGGAGGCAATTCCAACCTGGCATTTTGAATACTCTAGAACTCTG 965  
 Db 181 TCAGAACCCCCGGAGGCAATTCCAACCTGGCATTTGAAATTCTCTAGAACTCTG 240

Qy 966 AGGTTACGATTCAATCTGAGCATGAGCACATGGCAGCTGAATGAGAACATTAG 1025  
 Db 241 AGGTTACGATTCAATCTGAGCATGAGCACATGGCAGCTGAATGAGAACATTAG 300

Qy 1026 TACTGGCAATCTAGTGTCCAGTCAGCTGGAGCTGGAGCTGGTTTATAT 1085  
 Db 301 TACTGGCAATCTAGTGTCCAGTCAGCTGGAGCTGGTTTATAT 360

Qy 1086 GTGGGTGCGCAATGATGTCGAATGCTTTGTTGTGATGGTGGCTGGGGAA 1145  
 Db 361 GTGGGTGCGCAATGATGTCGAATGCTTTGTTGTGATGGTGGCTGGGGAA 420

Qy 1146 TCTGGAGATGATCCATGGTAGAACATGCCAGGTGGTTCCAGGTGTGAGTCTGTGA 1205  
 Db 421 TCTGGAGATGATCCATGGTAGAACATGCCAGGTGGTTCCAGGTGTGAGTCTGTGA 480

Qy 1206 CGATGAAAGCCCAAGAGTTGTGATGAGATTCAGGTAGATCTGATCTCTGTGA 1265  
 Db 481 CGATGAAAGCCCAAGAGTTGTGATGAGATTCAGGTAGATCTGATCTCTGTGA 540

Qy 1266 CAGCTGTTCACTTCAGATACCACTGGAGAGAAATGTCGACCCACAAATTCT 1325  
 Db 541 CAGCTGTTCACTTCAGATACCACTGGAGAGAAATGTCGACCCACAAATTCT 1325

Qy 1326 TTGGACCTGGAGAAGCTTCTGAGATGCTGTCATGATCACCTGGTTAA 1385  
 Db 601 TTGGACCTGGAGAAGCTTCTGAGATGCTGTCATGATCACCTGGTTAA 600

Qy 1386 TCTGCGCTTGGAAATGGCTTAATGAGACCTGGTAGAACACAGTCAGCTTAATGCT 1445  
 Db 661 TCTGCGCTTGGAAATGGCTTAATGAGACCTGGTAGAACACAGTCAGCTTAATGCT 720

Qy 1446 CTGACAACTGGAGAGACTAAACAGTATGATATGGTAGCTGAGCTGGCT 1505  
 Db 721 CTGACAACTGGAGAGACTAAACAGTATGATATGGTAGCTGAGCTGGCT 780

Qy 1506 GAAGATGAAAAGAGGAGGAGGAGGAAACAGTCAGAAATGGCATAGATGAT 1565

RESULT 9  
 US-10-323-643-1  
 ; Sequence 1, Application US/10323643  
 ; Publication No. US20030108552A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: He, et al.  
 ; TITLE OF INVENTION: Human Inhibitor of Apoptosis Gene 1  
 ; FILE REFERENCE: PFI65PDI  
 ; CURRENT APPLICATION NUMBER: US/10/323,643  
 ; CURRENT FILING DATE: 2002-12-20  
 ; PRIOR APPLICATION NUMBER: 08/464,588  
 ; PRIOR FILING DATE: 1995-06-05  
 ; PRIOR APPLICATION NUMBER: PCT/US95/05922  
 ; PRIOR FILING DATE: 1995-05-11  
 ; NUMBER OF SEQ ID NOS: 10  
 ; SOFTWARE: PatentIn version 3.1  
 ; SEQ ID NO: 1  
 ; LENGTH: 1435  
 ; TYPE: DNA  
 ; ORGANISM: Homo sapiens  
 ; FEATURE:  
 ; NAMES/KEY: CDS  
 ; LOCATION: (10)..(1326)  
 ; OTHER INFORMATION:  
 ; US-10-323-643-1

Query Match 55.2%; Score 1430.2; DB 14; Length 1435;  
 Best Local Similarity 99.8%; Pred. No. 2.5e-291;  
 Matches 1432; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 726 ATTTATGCAATGAGTACTGAAAGAAGGCCAGATTCTACCATATGTGGCCATACT 785  
 Db 1 AGTTATGCAATGAGTACTGAAAGAAGGCCAGATTCTACCATATGTGGCCATAACC 60  
 QY 786 TTTTGTCAACCATCAGAATTGGCAAGAGCTGCGTTTATVATAGGACCTCGAGATTC 845  
 Db 61 TTTTGTCAACCATCAGAATTGGCAAGAGCTGCGTTTATVATAGGACCTCGAGATTC 120  
 QY 846 GTAGCCTGCATTGCTGTGGTGGGAAGCTCACTGAACTGKIAACCAAAGGATGCTG 905  
 Db 121 GTAGCCTGCATTGCTGTGGTGGGAAGCTCACTGAACTGKIAACCAAAGGATGCTG 180  
 QY 906 TCGAACACCGGAGGCATTTCACATTGTCAGTCACTGAACTGKIAACCAAAGGATGCTG 965  
 Db 181 TCGAACACCGGAGGCATTTCACATTGTCAGTCACTGAACTGKIAACCAAAGGATGCTG 240  
 QY 966 AGGTTAGATTCAATCTGAGCATGAGCACACATGAGCACCTGAACTGAGAACATTAG 1025  
 Db 241 AGGTTAGATTCAATCTGAGCATGAGCACACATGAGCACCTGAACTGAGAACATTAG 300  
 QY 1026 TACTGGCCATCTAGTGTCCAGTCAGGCTTGAGGACTTCAGGCTGTTTATAT 1085  
 Db 301 TACTGGCCATCTAGTGTCCAGTCAGGCTTGAGGACTTCAGGCTGTTTATAT 360  
 QY 1086 GTGGGTGCGAATGATGATGATGTCAAATGCTTGTGAGTGGTGAAGTGGAA 1145  
 Db 361 GTGGGTGCGAATGATGATGATGTCAAATGCTTGTGAGTGGTGAAGTGGAA 420  
 QY 1146 TCTGGAGATGATCCATGGTAGACATGCCAAGTGGTTCJAGGIGRAGTTGTATA 1205  
 Db 421 TCTGGAGATGATCCATGGTAGACATGCCAAGTGGTTCJAGGIGRAGTTGTATA 480  
 QY 1206 CGAATGAAAGGCCAAGGTTGTGAGTGGTAGACATGCCAAGTGGTTCJAGGIGRAGTTGTATA 1265  
 Db 481 CGAATGAAAGGCCAAGGTTGTGAGTGGTAGACATGCCAAGTGGTTCJAGGIGRAGTTGTATA 540  
 QY 1266 CAGCTGTGCACTCGATAACCTGGAGAGAAATGTGACCCCAATTATTCA 1325  
 Db 541 CAGCTGTGCACTCGATAACCTGGAGAGAAATGTGACCCCAATTATTCA 600  
 QY 1326 TTGGACCTGGAGAAGTCTTCAGAGAGCTGCTGATGAGAATATCTCTGAA 1385  
 Db 601 TTGGACCTGGAGAAGTCTTCAGAGAGCTGCTGATGAGAATATCTCTGAA 660  
 QY 1386 TCTGCCTTGGAATGGGTTTAATAGAGACCTGGTGAACAGTCAAAGTAAATC 1445  
 Db 661 TCTGCCTTGGAATGGGTTTAATAGAGACCTGGTGAACAGTCAAAGTAAATC 720  
 QY 1446 CTGACACTGGAGAACTATAAACAGTTAATGATATTGTGTCAGACTCTAAATGCT 1505  
 Db 721 CTGACACTGGAGAACTATAAACAGTTAATGATATTGTGTCAGACTCTAAATGCT 780  
 QY 1506 GAGAGTGAAGAAAGAGGAGGAGAAACAAAGCTGAGAAATGGCATCAGAT 1565  
 Db 781 GAGAGTGAAGAAAGAGGAGGAGAAACAAACAGCTGAGAAATGGCATCAGAT 840  
 QY 1566 TTGTCATTATTGGAGGAGACAGATGCTCTTCACATGGAGCTGCTCT 1625  
 Db 841 TTGTCATTATTGGAGGAGACAGATGCTCTTCACATGGAGCTGCTCT 900  
 QY 1626 ATCCCTGGATAATCTTTAAGGCCAATGTTAATTAACAGGACATGATATTAAGA 1685  
 Db 901 ATCCCTGGATAATCTTTAAGGCCAATGTTAATTAACAGGACATGATATTAAGA 960  
 QY 1686 CAAAACACAGATACCTTACAAGGGAGAACTGTTACCATTTGGTTAAGGA 1745  
 Db 961 CAAAACACAGATACCTTACAAGGGAGAACTGTTACCATTTGGTTAAGGA 1020  
 QY 1746 AATGCTGGGCCAACATCTTCAAAAGAAATGACTCTACATTTGATAAG 1805  
 Db 1021 AATGCTGGGCCAACATCTTCAAAAGAAATGACTCTACATTTGATAAG 1080

## RESULT 10

US-10-232-286-13

; Sequence 13, Application US/1023286

; Publication No. US20030143579A1

## GENERAL INFORMATION:

APPLICANT: Rothe, Mike

TITLE OF INVENTION: INHIBITORS OF APOPTOSIS

NUMBER OF SEQUENCES: 14

CORRESPONDENCE ADDRESS:

ADDRESSEE: FLEIR, HOHBACH, TEST, ALBRITTON &amp; HERRBERT

STREET: 4 Embarcadero Center, Suite 3400

CITY: San Francisco

STATE: California

COUNTRY: USA

ZIP: 94111

## COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: PatentIn Release #1.0, Version #1.30

## CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/10/232,286

FILING DATE: 30-Aug-2002

CLASSIFICATION: &lt;Unknown&gt;

## PRIOR APPLICATION DATA:

APPLICATION NUMBER: US/08/569,749

FILING DATE: &lt;Unknown&gt;

## ATTORNEY/AGENT INFORMATION:

NAME: Brezner, David J.

REGISTRATION NUMBER: 24,774

REFERENCE/DOCKET NUMBER: A-62464/DJB

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## INFORMATION FOR SEQ ID NO: 13:

## SEQUENCE CHARACTERISTICS:

LENGTH: 2862 base pairs

TYPE: nucleic acid

STRANDEDNESS: single

TOPOLOGY: linear

MOLECULE TYPE: cDNA  
SEQUENCE DESCRIPTION: SEQ ID NO: 13:

US-10-232-286-13

Query Match 52.0%; Score 1345.2; DB 12; Length 2862;  
Best Local Similarity 76.6%; Pred. No. 2.9e-273;  
Matches 1844; Conservative 0; Mismatches 483; Indels 79; Gaps 13;

|    |      |   |      |    |      |  |      |
|----|------|---|------|----|------|--|------|
| Qy | 140  | TCTGAGAAATTCACTGAAATGTTAGCTATCAAACGACTGTCACTCATCA             | 199  | Oy | 1220 | AGAGTTGTGATGAGATTCAAGTAGATACTCCATCTTGAAACAGCTGTGTCAC         | 1279 |
| Db | 420  | TGGTGAAGAACTTCATCTGGAAAGTAACTT- ACTACTCATGA                   | 477  | Db | 1477 | GGAGTTGTGATGAGATTCAAGTAGATACTCCATCTTGAAACAGCTGTGTCAC         | 1536 |
| Qy | 200  | CAAACCTGCCAAAGACTTTCCAGTCCTCGATCAAACATTAAGGATAAT              | 259  | Qy | 1280 | TTCAGATACCACCTCGAGAAGAAATGCTGACCC-----ACCAATTATCATTGACC      | 1333 |
| Db | 478  | CAAACCTCTCCAGAACAGACTCGGCAGAGTACAGTAACTTACACCAAACATTAAGGATAAT | 537  | Db | 1537 | TTCAGACACCCCAAGAGAAATGCTGACCCATACAGAGACAGTGGCATTTGCC         | 1596 |
| Qy | 260  | GGAAAGATAGCACAGATCTGCACTGAGATGCAATGGACAAGAACAGCA              | 319  | Qy | 1334 | TSGAGAAAGTTCTCGAGAAGATGCTGATGATGAAATACACTTGTTAATCTGCCT       | 1393 |
| Db | 538  | GGAGAAGGACACATCTCTGCAATGGACAAGAACAGCA                         | 597  | Db | 1597 | TSGAGAAAG----TTCGGAAGATGCTGATGAAAGCAGCTGACGCTGTTAAGCAGCCT    | 1653 |
| Qy | 320  | CTTTCTGTGACTCTACAGATGCTACATTCAGATGCTACATTCAGTTCTCGAGGAGGAGA   | 379  | Qy | 1394 | GGAATGGCTTAATAGAGACCTGTTGAAACAAACAGTCAAAGTAATCTGCAC          | 1453 |
| Db | 598  | CTTCAGAAGGACTCTGCTCGTGTGCTGGCTTATATACAGCTTCCAGGAGGAGA         | 657  | Db | 1654 | GGAAATGGCTCTAGTAGGAGCCCTGGTGAAGACAGCAGGGTCAGGGCA             | 1713 |
| Qy | 380  | CTCAGAAGGACTCTGCTCGTGTGCTGGCTTATATACAGCTTCCAGGAGGAGA          | 439  | Qy | 1454 | TGGAGAAACTATAAACAGTTAATGATATGTTGTTGAACTCTCTAAATGTA           | 1513 |
| Db | 658  | CTCAGAGGGACTCTGCTCGTGTGCTGGCTTATATACAGCTTCCAGGAGGAGA          | 717  | Db | 1714 | TSGAGAAACTACGGACCGTCATGATATTGTCAGTACTTTGTA                   | 1773 |
| Qy | 440  | ATGCTTCTGTGTGGCTGATGCTGATACTGAAACTAGGAGACAGTCTTATCMA          | 499  | Qy | 1514 | AAAAGAGAGGAGGAGGAGGAAACAAAGCTGAGAAATGGCATCAGATGATTTGCA       | 1573 |
| Db | 718  | GTGCTCTGCTGIGGCCGTGATGTTGAAATCTGGAAAGAAGGGAGACAGTCCTGTTGA     | 777  | Db | 1774 | GAGAGAGAGGAGGAGGAGGAAAGACAGATGAGATGGCATCAGGTACTTAC           | 1833 |
| Qy | 500  | GCATATAAGCTATATCTAGCTGAGTTATTCAGANCTGGTTAGCTAGTCGG            | 559  | Qy | 1574 | AATTCGGAGAAAGAACATGGCTCTTTCACAAATGACATGTTGTTCTATCTGG         | 1633 |
| Db | 778  | GCACAGAAGCTCTATCCAGCTGAGCTGAGCTTGTACAGACAGTCCTGAGTCGA         | 837  | Db | 1834 | GATTCGGAGAAAGAACATGGCTCTTTCACAGTCAGTCACATGTTGCTTCTATCTGG     | 1893 |
| Qy | 560  | ATCCACCTCTAAGATAATGCTCCAAATGAGAACAGTTGCAATTGATTCTCCAC         | 619  | Qy | 1634 | TAATCTTTAACGCCAATGTAATTAACAGAACATGATATTAAACAAAC              | 1693 |
| Db | 838  | GTCTCCATTAAGATAATGCTCCAAATGAGAACAGTTGCAATTGATTCTCCAC          | 897  | Db | 1894 | TAATCTTCTGAGCCAGTGTAAATACAAACAGAACATGATATTAGACAGAAC          | 1953 |
| Qy | 620  | CTGGAAACATAGTAGCTGTTAGTCTGAGGGCTTACTCCAGCTTCTGCTCTGAA         | 679  | Qy | 1694 | ACGATACCTTACAAGGGAGAACTGATGTTGATACCATTTGGTTAAGGAATGCTGC      | 1753 |
| Db | 898  | ACGAG-----GTCGATTCACTCCAACTGTCATGTCATGCTCTCTAA                | 939  | Db | 1954 | ACGATACCTTACAAGGAAGGAGCTTACGACCTGTTAGCTGAAATGCTGC            | 2013 |
| Qy | 680  | TTCTAGAGCAGTGAAGACATCTCATCGAGGACTAACCCCCAACAGTTGCAATGAG       | 739  | Qy | 1754 | GGCCAACATCTCAGAAACTGCTAAAGGAATGACTCTACATGTTAAGAACATT         | 1813 |
| Db | 940  | TTCTAGAGCAGTGGAAAGACTCTCATCAAGGATGGAACCTGAGCTATGCCATGAG       | 996  | Db | 2014 | ACCCAACATCTCAGAAACTCTGTCAGGAAATGACTCCACGTTATGAAACTT          | 2073 |
| Qy | 740  | TACTGAGAGGAGGAGTTCTACCCACATATGGCCATTACCTTTGTCACATC            | 799  | Qy | 1814 | TCTGGATAAGATAATGAGTATATCCAAACAGAGATGTTGAGCTTCAGGTCGTGCACTGGA | 1873 |
| Db | 997  | TACAGAGAGGCCAGATTTCTACTTACAGTATGTTGCTTAACTGTTCTGTCACAGC       | 1056 | Db | 2074 | TCTGGATAAGATAATGAGTATATCCAAACAGAGATGTTGAGCTTCAGGTCGTGCACTGGA | 2133 |
| Qy | 800  | AGAATGGCAAGAGCTGTTTATTATATATAGGACCTGGAGATAGGGTAGCCGCTGTC      | 859  | Qy | 1874 | ACATGAGGAGCTGCAAGAGAACAGACTGTTAAGTGCTATGGCAAAAGAGTTTC        | 1933 |
| Db | 1057 | AGAGCTGCCAGAGCTGCTCTATACATAGGGCTTAACTGAGACAGGGCTGTC           | 1116 | Db | 2134 | GCCTTGCGGAAATTACAAGGAAGAACAGAACATGCAAAAGTGCTPATGGCAAGAGGTTTC | 2193 |
| Qy | 860  | CTGGCTGGAAAGCTGAGTAATGGGAAACCAAGGATGAGAGCTGAGAACCCGG          | 919  | Qy | 1934 | TGTTGTTATTATCTGTCATCTGGTAGATGCCAGGAACTGCTGCTATGGCAAGAGGTTTC  | 2253 |
| Db | 1117 | CTGCTCTGGAAACCTGAGCAACTGGAAACAGGATGATGCTGAGACGCC              | 1176 | Db | 2194 | TATTTGTTCTCATTCGCTGTCATCTAGTAGCTGCTGCCATTCTCTTAAG            | 2253 |
| Qy | 920  | GCATTTCCCAACTGTCATTGAAATTCTGAAACTCTGAGGTTAGCATTC              | 979  | Qy | 1994 | AAATGCCTATTGCAAGGGTTAATCAAGGGACTGTGTCACATTCTCTCTAAAG         | 2053 |
| Db | 1177 | ACATTTCCTCCACTGTCATTCCTGAAATACTCTGAAACACAGGGTTAGTATC          | 1236 | Db | 2254 | GAATGCGCCATCTGCGGGGAACTCAAGGGACTGTGCGCACATTCTCTCATGA         | 2311 |
| Qy | 980  | AAATCTGAGCATGCCAGAACATGCACTGCACTGTCAGTGTGTTTATATGGGGTCTGCA    | 1039 | Qy | 2054 | AAATAAGTCTATTTAACCTCATAAAAGGCTTTAAATATTGTTGAAACATTG          | 2113 |
| Db | 1237 | AAATCTGAGTATGCTGAGAACACTCTGCTCTGAGAACATTCTGTCACCTG            | 1296 | Db | 2312 | -----GTGAGAAATGCTGAAAGTATGTTGAC                              | 2347 |
| Qy | 1040 | TGTTCCAGGTCAGCCCTGAGCACTGTCAGTGTGTTTATATGGGGTCTGCA            | 1099 | Qy | 2114 | ACGCATCTAAATGAAAGGAAATTATGAGTTTCAATTAGTACATTCATGTTCTG        | 2173 |
| Db | 1297 | TGTTCTGTCAGGCCAGCACTCTGCTCTGAGAACATTCTGTCACCTG                | 1356 | Qy | 2348 | AGCTGCAAGAACAGAACATGACTCTGA-----TTTCAGCTCTGAGGACATCT         | 2404 |
| Qy | 1100 | TGATGTCAAATGCTTGTGATGCTGGCTGAGGTGTTGGAATCTGGAGATGATC          | 1159 | Qy | 2174 | CCTCTCAAGATTAATCTGTTGAAAGATGGTATCATATTAATCTGAACT             | 2233 |
| Db | 1357 | TGATGTCAGTGTCTGTTGATGCTGGCTGAGGTGTTGGAAGCTGGAGATGCC           | 1416 | Db | 2405 | CTCTTCAAGATTAATCTGCTTATGAAAGGTAGCATGTTAAGCTG                 | 2464 |
| Qy | 1160 | ATGGGTAGAACATGCCAAGTGGTTCAAGGGTGTGAGTCCTGATGAAAGGCC           | 1219 | Qy | 2234 | TGTTTATTACAGGGAAAGTTATGTTGGTAACTTATTAGTATGTTGTCACCTA         | 2293 |
| Db | 1417 | CTGGATAGAACACGCCAAATGTTCCAAAGGTGTGAGTCCTGATACGGATGAGGTC       | 1476 | Db | 2465 | TG-----TGGAGGAAGGCTGATGCTGAGCTACAGGAGCTGTCGTTGTCAG           | 2518 |
| Qy |      |   |      | Qy | 2294 | AGGGAGTAGTGTCACTGCTGTTATGCATCTTCAGGAGTTACTGGATTGTTGTC        | 2353 |





|    |      |   |      |    |  |   |
|----|------|---|------|----|--|---|
| Qy | 715  | CTAACCCCTACAGTATGCAATGAGACTGAGAAGACATTCTAACCATATG               | 774  | Db | 1656   |   |
| Db | 579  | TGGATCCTGCAGCTATGCCATGAGTACAGAGAGGCGAGATTCTTACAGATG             | 638  | Qy | 1849   | ATGTTTCAGGTCTGTCAGTGAGAACATTGAGAGGTGCAAGAGAACATTGTA         |
| Qy | 775  | GGCCATTAACTTTTGTACCATCAAAATTGCGAACAGCTGTTTATATAGAC              | 834  | Db | 1716   | ACGTTTCAGGTCTGTCAGTGAGAACATTGAGAGGTGCAAGAGAACATTGTA         |
| Db | 639  | GGCCTTAAAGTTCTGTACCATCACAGAGCTGGCAAGCTGTTTATATAGAC              | 698  | Qy | 1909   | AAGGTGTTAGGAGAACATTGAGAGGTGCAAGAGAACATTGAGAGGTGCAAGTGA      |
| Qy | 835  | CTGGAGATAGGGTAGGCCTGCTTGCCCTGGGGAGCTGAGCTGGCTTCTTACAGG          | 894  | Db | 1776   | AAGGTGTTAGGAGAACATTGAGAGGTGCAAGAGAACATTGAGAGGTGCAAGTGA      |
| Db | 699  | CTGGAGACAGGGCTGGCTTGTGCTTCTGGGAAACTGAACTGGAAACAAAGG             | 758  | Qy | 1969   | GCCAGGAATGTGCCCTCTCTAAGAAATGCCCTATTGCAAGGGTATCAGAGAACATTGCA |
| Qy | 895  | ATGATGCTATGTCAGAACACCGGAGATTCCCACACTGGAAACTGAACTGGAAACAAAGG     | 954  | Db | 1836   | GCCAGGAATGTGCCCTCTCTAAGAACTGGAAACATTGCAAGGGGACATCAAGGGA     |
| Db | 759  | ATTATGCTATGTCAGAACACCGGAGATTCCCACACTGGAAACATTGCAAGGGAAACAAAGG   | 818  | Qy | 2029   | CTGTGTCACATTCTCTTAAAGAAAATAGCTATTTAACCTGATAAAGGT            |
| Qy | 955  | TAGAAACTCTGAGGTTAGCATTCAAATCTGAGCTGCA3CACATCGAGCTGAATGA         | 1014 | Db | 1896   | CIGTGGCACATTCTCTCATGA-----GTGAGAGATGG                       |
| Db | 819  | GGACACATTCGTACTGGCACACTAGTGTATCAAATCTAAGTACGTCAGATG             | 878  | Qy | 2089   | CTTAAATATTTGAGACACTTGAGGCCATCTAAAGTAAAGGAAATTAGCTGATAAAGGT  |
| Qy | 1015 | GAACATTTAGTACTGCCATCTAGTGTGCAATGATGATGTCAAATGCTTGTGTA           | 1074 | Db | 1930   | TCTGAAAGTATGTTGGACATCAGAGCTGTCAGACAAAGATGAACTACTGA---TTT    |
| Db | 879  | GGACACACAGAGTTAGTATCAAATCTAAGTACGTCAGATG                        | 938  | Qy | 2149   | CAATTAGTACATCTGTCAGTGTCTAGTGTCTGTTGGACTATAATCTGTGTTCTGAA    |
| Qy | 1075 | GTTTTATTATGTCGGTGTGCAATGATGATGTCAAATGCTTGTGTA                   | 1134 | Db | 1987   | CAGCTCTAGCAGAACATTCTACTCTCTCAAGTATGTAATCTGTGTTCTGAA         |
| Db | 939  | GATTCATATTACGTGGAATGATGATGATGTCAGTGTGTCAGTGTG                   | 1058 | Qy | 2209   | TGGTATCATATTTAACTTAACTGTTATTACAGGAAAGTTATGTTGTCAGTGTGAA     |
| Qy | 1135 | GGTGTGAGGAATCTGGAGATGATCCATGGTAGAACATGCAAGCTTGTGTCAGTGTG        | 1194 | Db | 2047   | TAGCATGTATTTAACCTGAGTGTG-----TGGCAAGGGAAGGTCTATG            |
| Db | 999  | GATGTTGGGAACTGGATGACCCCTGGATGACCCCTGGATGACCC                    | 998  | Qy | 2269   | CTATATTAGTATGTTGGTACCTAAGGAGTTATGTTGTCAGACAAAGATGAACTACTGA  |
| Qy | 1195 | AGTTCTGTGATACGAATGAAAGGCCAACAGTTGTTGAA3ATTCAGGTAGATATCTC        | 1254 | Db | 2101   | CTACAGGACTGTCTGTCAGCAGAACATTCTGTCAGTGTGTC-----CTTC          |
| Db | 1059 | AGTTCTGTGATACGGATGAGGTCAAGGCTTGTGTCAGACACCCAGG                  | 1118 | Qy | 2329   | AGGAGTACTGGATTGTGTCTTCAAGAAGCTTGTGAACTAAATATAGTGA           |
| Qy | 1255 | ATCTTCTGTGACAGCTGTGTCACCTGAGTACCCCTGGAGAACAAATGCTGACCC          | 1312 | Db | 2157   | AGGACTCTTGGAAATTGGGAATTCAGGAGCTGTCAGTGTGTCAGTGTGTC-----CTTC |
| Db | 1119 | ATCTTCTGTGACAGCTGTGTCACCTGAGTACACCCAGG                          | 1178 | Qy | 2389   | AAGGACTGGAAACCCAGGAACCTCTGGAGTCTCATCAGGTTATGGTCCAGGAGTC     |
| Qy | 1313 | ---ACCAATTATTGATTGGACCTGGAGAAGTCTTCAGAAGAAATGCTGACCC            | 1368 | Db | 2217   | GAAATCCTGGAACTCAGTGTACTCTGGTACTCTGAGTGTGAA                  |
| Db | 1179 | CAGAGACAGTGGCAATTGGCCCTGGAGAAG---TCAAAAGATGTCATG                | 1235 | Qy | 2449   | TGCTTTCACTGTGTTAAATAAGGATTCT                                |
| Qy | 1369 | ATACACCTGTGGTTAACCTGCTTGGCTTAAGGACCTGGCTTCAGTAGGAAACCTGGTAAACAA | 1428 | Db | 2275   | TGCTTTCCAGTCGGGAATTAAGGAGGAATCTG                            |
| Db | 1236 | GCAACGCTGTGGCTTAAGGACCTGGCTTCAGTAGGAAACCTGGTAAACAA              | 1295 | Qy | RESULT 13  |   |
| Qy | 1429 | CACTTCAAAGTAAATCCTGACAACCTTAAACGTTATGATATGTT                    | 1488 |    | US-09-954-456-1635   |   |
| Db | 1296 | CGGTTCAGGGCAGATCTGGCACTGTGAGAATGAGACATGATGATGCT                 | 1355 |    | ; Sequence 1635, Application US/09954456   |   |
| Qy | 1489 | CAGCACTCTAACTGCTGAGTAAAGAGAGGAGGAGGAGGAGGAAACAGCTGAG            | 1548 |    | ; Patent No. US200211505711  |   |
| Db | 1356 | CACTTGTGATGCTGAGAATGAGACATGACAGACAGCTGAG                        | 1415 |    | GENERAL INFORMATION:   |   |
| Qy | 1549 | AAATGCGCATCAGATGATTGTGCTTAACTTAAAGGACAGACAGATGCTCTTCAACAT       | 1608 |    | APPLICANT: Young, Paul   |   |
| Db | 1416 | AGATGCGCATCAGGAGACTATCACTGAGTGTGAGAAGAGAGGAGGAGGAGGAGGAGG       | 1475 |    | TITLE OF INVENTION: Process for Identifying Anti-Cancer Therapeutic Agents Using Cance |   |
| Qy | 1609 | TGACATGTGCTCTTAACTTAAAGGACAGACAGATGCTCTTCAACAT                  | 1668 |    | FILE REFERENCE: 689290-76  |   |
| Db | 1476 | TGACATGTGCTCTTAACTTAAAGGACAGACAGATGCTCTTCAACAT                  | 1535 |    | CURRENT APPLICATION NUMBER: US/09/954,456  |   |
| Qy | 1669 | AACATGATATTAAACAAAAACAGATACTTACAGGAGAGACTGATGATA                | 1728 |    | CURRENT FILING DATE: 2001-09-18  |   |
| Db | 1536 | AACATGATATTAGAGAAACACAGATACTCTGAGGAACTCTCAAAACTCTGAAAGGAAATG    | 1595 |    | PRIOR APPLICATION NUMBER: US/60/233,617  |   |
| Qy | 1729 | CCATTGTTGGTTAACGAAATGCTGGCCACATCTCAAACACTGCTAAAGAATTG           | 1788 |    | PRIOR FILING DATE: 2000-09-18  |   |
| Db | 1596 | CGGTTCAGGGAAATGCTGACCCACACTCTCAAACACTCTGAAAGGAAATG              | 1655 |    | PRIOR FILING DATE: 2000-09-26  |   |
| Qy | 1789 | ACTCTACATGTATAAGACTTATGTTGGATAAGATAATTCACAGAAG                  | 1848 |    | PRIOR FILING DATE: 2000/09/27  |   |

; PRIORITY FILING DATE: 2000-09-26

; PRIORITY APPLICATION NUMBER: US/60/233,638

; PRIORITY FILING DATE: 2000-09-26

; PRIORITY APPLICATION NUMBER: US/60/235,711

; PRIORITY FILING DATE: 2000-09-27

PRIOR APPLICATION NUMBER: US/60/235, 720  
 PRIOR FILING DATE: 2000-09-27  
 PRIOR APPLICATION NUMBER: US/60/235, 840  
 PRIOR FILING DATE: 2000-09-27  
 PRIOR APPLICATION NUMBER: US/60/235, 863  
 PRIORITY FILING DATE: 2000-09-27  
 NUMBER OF SEQ ID NOS: 2276  
 SOFTWARE: Patentin version 3.0  
 SEQ ID NO: 1635  
 LENGTH: 3076  
 TYPE: DNA  
 ORGANISM: Homo sapiens  
 ; US-09-954-456-1635

Query Match 44.7%; Score 1157; DB 10; Length 3076;  
 Best Local Similarity 77.3%; Pred. No. 1.4e-233;  
 Matches 1474; Conservative 0; Mismatches 415; Indels 18; Gaps 5;

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Qy  992 GCAGACACATGCACTCGAATGAGAACATTATGACTGGCCATCTAGTGTCCAGTC 1051
Db  1480 GCAGACACATGCACTCGAAGCTTAAACATCTTAACTGGCCCTCTAGTGTCTAGTAA 1539
Qy  1052 GCCTGAGCAGCTGCAAGTGTCTGGTTTATTATCTGGTCGAATGATGATGTCAATG 1111
Db  1540 TCTGAGCAGCTGCAAGTGTCTGGGTTTATTATCTGGTAACAGTGATGTCAATG 1599
Qy  1112 CTRTGTTGTGATGCTGGTGTGAGCTGCTGGAAATCTGGAGATGATGTCATGGTACA 1171
Db  1600 CTRTGTTGTGATGCTGGTGTGAGCTGCTGGAAATCTGGAGATGATGTCATGGTICAACA 1659
Qy  1172 TGCAGTGGTTCCAAGGTGTGACTTCTGATAAGAAATTAAAGGAGAGGTTCTG 1231
Db  1660 TGCAGTGGTTCCAAGGTGTGACTTCTGATAAGAAATTAAAGGAGAGGTTCTG 1719
Qy  1232 TGAGATCAAGGTGATATCTCATCTCTGACAGCTGTCAGTCAGATACCAC 1291
Db  1720 TCACTTCAGCCAGTTACCTCATCTACTTGAACAGCTGCTACAGCTGCTATCCAC 1779
Qy  1292 TGAGAGAAATGCTGCCAACATTATCATTGACCTGGAGAAAGTTCTG 1351
Db  1780 AGGAGATGAATTCGGAGTCATCAATTACCTTCAATTGACCTGGAGAAAGCATTG 1839
Qy  1352 AGATCTGTCATGTAATACTACCTGGTTAACTCTGCTTGGAAATGGCTTTATG 1411
Db  1840 AGATCAATCATGTAATACTCTGCTTGGAAATGGCTTTATG 1899
Qy  1412 AGACCTGGAAACAAACAGTCAGTAATACTCTGCTTGGAAATGGCTTTATG 1471
Db  1900 AGCCCTGGTAACAGACAGTCAGTAAGAAATTCTGAGATGAAAGAGGAGGAA 1531
Qy  1472 AGTAATGATATGTCAGACTCTTAATGCTGAGATGAAATCTGAGATGAAAGGAGA 1959
Db  1960 AGTCATGATCTGTTAGCTACTCATGAGAGTAAATGGAGAGGAGGAG 2019
Qy  1532 GGAAACACAGTCAGAAATTGGCATCAGATGATTGCTTAAATCGGAAGAACAA 1591
Db  2020 AGAAGAGCAACTGGAAAAAGAAATCAATGATTATTAAATCGGAAGAATGAA 2079
Qy  1592 GGCTCTTCAACATTGACATGTTGCTCTATCTGGATAATCTTAAAGCCAA 1651
Db  2080 GGACTTTCAACATTGACTCTGTTAAATCCAACTCTGGATAATCTAACCGGG 2139
Qy  1652 TGTAAATAAACAGGACATGATATTAAACAAACACAGAACCTTACAG 1711
Db  2140 AATTTAAATGAGAGAACATGATGTTAAACAGAGAACAGAGCTTAAAG 2199
Qy  1712 GAGAGAACTGATGATACATTGGTAAGGAAATGCTGGCCACATCTG 1771
Db  2200 AAAGAGAACTGATGATGATGATGTTAGTAAGGAAATGAGCCACTGATG 2259
Qy  1772 CTGCTTAAGAAATGACTCTACATGATAAGAATTTGGATAAGATGAA 1831
Db  2260 CTCTCTGCAAGGAGCTGAACTGCTGTTATGAGCATTTTGTCACAGGAA 2319
Qy  1832 GTATTCAGAGAGAGATGTTGAGTCAGTCAGTCACTGGAGAACATGGAGGTGCA 1891
Db  2320 ATATTCCTCAAGAGAGATGTTGAGTCAGTCACTGGAGAACATGGAGACTACA 2379
Qy  1892 AGAGAGAACGAACTGTAAGGTTGATGGACAGAGAGTTCTGTTGTTATTCCTG 1951
Db  2380 AGAGAGAGAGAGTAAAGGTTGATGGACAGAGAGTGTCCATAGGTTTCTG 2439
Qy  1952 TCGTCATCTGGTAGTGTCTGGACATTCCTCTTAAGAAA 2011
Db  2440 TGGTCATCTGGTAGTGTCTGGACATTCCTCTTAAGAAA 2499
Qy  2012 CGCTATATCAGGACTGTCTGGACATTCCTCTTAAGAAA 2058
Db  2500 GAGTACATCAAGGAGCTGTCACATTCTGAGAGAA 2546

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RESULT 14  
 US-09-954-531-16  
 ; Sequence 16, Application US/09954531  
 ; Patent No. US20020165180A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: weaver, zoe  
 ; TITLE OF INVENTION: Process for Identifying Anti-Cancer Therapeutic Agents Using Cands  
 ; TITLE OF INVENTION: Gene Sets  
 ; CURRENT APPLICATION NUMBER: US/09/954,531  
 ; CURRENT FILING DATE: 2002-05-02  
 ; PRIOR APPLICATION NUMBER: US/60/233,133  
 ; PRIOR FILING DATE: 2000-09-18  
 ; PRIOR APPLICATION NUMBER: US/60/234,009  
 ; PRIOR FILING DATE: 2000-09-20  
 ; PRIOR APPLICATION NUMBER: US/60/234,034  
 ; PRIOR FILING DATE: 2000-09-20  
 ; PRIOR APPLICATION NUMBER: US/60/234,509  
 ; PRIOR FILING DATE: 2000-09-22  
 ; PRIO R APPLICATION NUMBER: US/60/234,567  
 ; PRIO R APPLICATION NUMBER: US/60/234,034  
 ; NUMBER OF SEQ ID NOS: 1392  
 ; SOFTWARE: PatentIn version 3.0  
 ; SEQ ID NO 16  
 ; LENGTH: 3076  
 ; TYPE: DNA  
 ; ORGANISM: Homo sapiens  
 ; US-09-954-531-16

Query Match 44.7% Score 1157 DB 10 Length 3076:  
 Best Local Similarity 77.3%; Pred. No. 1.4e-233; Mismatches 415; Indels 18; Gaps 5;  
 Matches 1474; Conservative 0; Mismatches 415; Indels 18; Gaps 5;

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US-10-197-290-1  
; Sequence 1, Application US/10197290  
; Publication No. US20030083300A1  
; GENERAL INFORMATION:  
; APPLICANT: C. Frank Bennett  
; APPLICANT: Elizabeth J. Ackermann  
; APPLICANT: Lex M. Cowser  
; TITLE OF INVENTION: ANTISENSE MODULATION OF CELLULAR INHIBITOR OF APOPTOSIS-2  
; TITLE OF INVENTION: EXPRESSION  
; FILE REFERENCE: RTSP-0421  
; CURRENT APPLICATION NUMBER: US/10/197,290  
; CURRENT FILING DATE: 2002-07-16  
; PRIOR APPLICATION NUMBER: 09/857,299  
; PRIOR FILING DATE: 2001-20-04  
; PRIOR APPLICATION NUMBER: PCT/US99/22083  
; NUMBER OF SEQ ID NOS: 47  
; SEQ ID NO 1  
; LENGTH: 3076  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
; FEATURE:  
; NAME/KEY: CDS  
; LOCATION: (725)..(2539)  
; US-10-197-290-1

Query Match Best Local Similarity 44.7%; Score 1157; DB 14; Length 3076;  
Matches 1474; Conservative 0; Mismatches 415; Indels 18; Gaps 5;

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QY 284 TTGGACAAACAG--CAACAAACAAATGAAGTGTATGCAAGATAGCCAGATCTTGTAGA 340  
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QY 341 AATGTCATCAATTCACTTCCCCGGGGTGCCTCTGAAAGAGGTCTGCTG 400  
Db 820 AATGTCATCACTTCCACTTCTGAAAGGAGTCTGAACTGACCG 879  
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Db 880 TGCTGGTTCTTACACTGTCAGTCATGCTGAACTGCTG 939  
QY 461 GCTGGAAACTGGAAACTGGAGACGCTTCAAGGATTCAGTCATGCTG 520  
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| QY | 1652 | TGTAAATAAACAGGACATGATATTATAACAAAACACAGATACCTTACAGC         | 1711 |
| Db | 2140 | AATTAATTAATGAACTAGAACATGATGTATTAAACAGAACAGACAGTCCTTACAGC   | 2199 |
| QY | 1712 | GAGAGAACTGATGATACCATTTGGTTAAGGAATGCTGGGCAACATCTCAA         | 1771 |
| Db | 2200 | AAGAGAACTGATGATACGATTAGTAAGGAATATTGCACTGACTGTATCGAA        | 2259 |
| QY | 1772 | CIGCTAAAGAACATGACTCTACATGTTAGAAGCTATTGTCGATAAGAAATGAA      | 1831 |
| Db | 2260 | CTCCTCTGCAAGAACGCTGAGCTGCTGCTTATAGACATTATTGCAACAGGAA       | 2319 |
| QY | 1832 | GTATATTCCAAACAGAGATGTTTCAGGCTGTCACTGGAA3AACATTGAGGACGTTGCA | 1891 |
| Db | 2320 | ATATATTCCACAGAGATGTTTCAGATCTACCGTGGAA3AACATTGAGGACGTTGCA   | 2379 |
| QY | 1892 | AGLAGAACGAACTCTGAAAGTGTGATGGACAAGAGTTCTGTTGTTATTATCCTTG    | 1951 |
| Db | 2380 | AGAGAAAGAACAGTAAAGTGTGATGGACAAGAGTTCTGTTGTTATTATCCTTG      | 2439 |
| QY | 1952 | TGGTCACTCTGGTAGTGGCAGGAATGCCCTTCCTAAGAAATGCCTATTGCGAG      | 2011 |
| Db | 2440 | TGGTCACTCTGGTAGTGGCAGGAATGCCTTCCTTAAAGAAGTGCTCTATTGAG      | 2499 |
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Search completed: December 4, 2003, 17:08:51  
 Job time : 824 secs